

DIGITAL TECHNOLOGIES AS A CONDITION FOR THE MODERNIZATION OF THE EDUCATIONAL PROCESS

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Abstract: The development of digital skills and digital educational technologies undoubtedly plays an important role in the life of modern society, including as an improvement in education. The article emphasizes the importance of using effective ways for students to assimilate educational information in the classroom. The purpose of the article is the need to trace the relationship between the ability of a teacher to master the latest digital technologies and the final result of his activity.

Key words: information technologies, digital technologies, digital educational resources (DER), e-learning.

The development of digital technologies leads to the emergence of new opportunities for the organization of the educational process. The lack of a scientifically sound methodology for the development of higher and professional education based on advanced research does not allow us to effectively use all the opportunities that digital technologies provide today. The most promising are the possibilities of working with big data (BigData); deep immersion in the professional environment (Deep Learning); cloud and blockchain technologies (Cloud). It is likely that in the context of the development of virtual machines (VR) a number of previously unexplored educational opportunities will be implemented, allowing to supplement the range of previously known teaching methods. Thus, the modern didactics of vocational education for the successful implementation of the possibilities of digital technology should be focused on the formation of a professional information culture of graduates.

The formation of a digital educational resource greatly simplifies the work of teachers and students, in addition, modern educational technologies have significantly expanded the possibilities for learning certain subjects. There was a possibility of constant access to the necessary information through the creation of electronic educational resources: digital textbooks, multimedia resources. They present learning materials in many different ways, such as text, graphics, photos, video, sound, and animation. Thanks to this approach, all types of perception of the student are involved, thanks to which the foundations of thinking and practical activity are laid.

The advantages of digital technologies in education include the following: (see Figure 1)

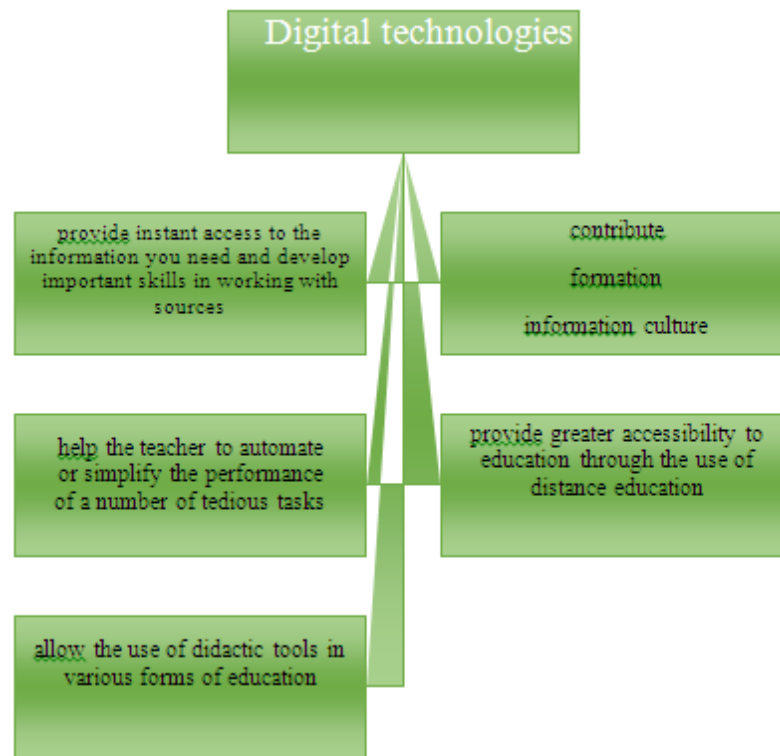


Figure 1. Advantages of digital technologies in education

The use of digital technologies makes it possible to make the educational process more perfect. One of the most promising and widely used digital technologies today is the digital educational resource (DER), which combines a wide variety of information presentation tools combined in one structure. The alternation of text, graphics, video and audio tracks, interactive exercises and test questions allow you to present information in the most visual and easily perceived form.

Based on the foregoing, it should be noted that the introduction of digital technologies is very important for the development of the system of higher and vocational education, but along with this, it is necessary to form a scientifically based approach to their implementation. Improving training based on a cultural approach will allow the formation of digital smart didactics, the introduction of blockchain technology, which should become the basis for the development strategy of modern educational organizations.

Blockchain opens up prospects for the development of network forms of interaction between scientific, educational and industrial organizations for the training of innovative personnel. A number of aspects look much better in this situation: copyright preservation, prevention of plagiarism, the formation of innovative products by students in the process of internships and internships, etc.

Our country needs highly professional personnel, so the task of the domestic science consists not only in transferring the best foreign practices to our conditions, but also in developing a science-based advanced educational strategy based on the best domestic scientific schools and advanced digital technologies.

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