

## MODERN DIGITAL TECHNOLOGIES AND IT IS NECESSARY TO BRING THEM INTO THE EDUCATIONAL PROCESS

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**ABSTRACT:** The article defines the priorities for the development of the educational process based on the use of digital technologies in higher education, and analyzes their capabilities. He also offers suggestions on how not only to play an important role in education, but also how to realize it through the study, systematization and generalization of existing practices to obtain evidence-based conclusions about the introduction of digital technologies in higher education.

**KEYWORDS:** Digital technologies, information and communication technologies, higher education system, modern education, digital knowledge, Internet system, distance learning.

### INTRODUCTION

Today, one of the current directions of the education system is informatization, which integrates pedagogical and digital technologies in order to train competent personnel for the digital economy. In the current environment, the availability of open educational resources and mass open online courses serves to enrich the educational potential of information technologies. In the context of the development of digital technologies and the improvement of the training system of highly qualified personnel, research is being conducted in the field of forming the necessary competencies for future specialists in leading educational institutions.

Currently, modern digital technologies are actively used in all spheres of life (transport, construction, industry, service, medicine, education). All citizens living in our country, including young children and pensioners, are forming the idea that all problems in society can be solved through digital technologies. In addition, in the educational system, pedagogues are effectively using digital technologies to improve the quality of their lessons and increase students' interest in science.

In our society, issues related to ethical, personal data protection, legal aspects of competition between robots and employees of organizations are increasingly being taken into account with the undoubted benefit of the technologies introduced and based on the use of digital technologies.

In particular, as the President of our country, Shavkat Mirziyoyev, stated, “To achieve development, it is necessary and necessary to acquire digital knowledge and modern information technologies. This gives us the opportunity to take the shortest path to ascension. After all, information technologies are deeply penetrating all areas of the world today. Of course, we know very well that the formation of the digital economy requires the necessary infrastructure, a lot of

money and labor resources. However, no matter how difficult it is, if we don't start today, when will we?! Tomorrow will be too late" [1].

The Digital Uzbekistan - 2030 strategy addresses the following issues:

- Introduction of highly effective international practice aimed at organizing studies in the field of technological professions and innovative activities into the educational system;
- Increase the number of graduates of higher education institutions training personnel in the field of information and communication technologies, graduates of secondary special vocational education institutions with an average level of competence in the field of information technologies;
- Improving the methods of teaching informatics in secondary schools by encouraging the participation of organizations in the field of information technologies in educational processes;
- Organization of laboratories for the application and study of "Internet of Things", robotics, artificial intelligence technologies in the relevant fields of higher education institutions, as well as the involvement of foreign enterprises in this field;
- Digitization of educational materials in education by developing and providing support for the state uniform requirement for the use of digitization formats of paper-based materials;
- Development and promotion of scientific research works in the field of digital technologies, improvement of their organizational mechanisms;
- Conducting republican contests and events (hackathons, contests, Olympiads, etc.) promoting the creation of ideas and new technologies [3].

As can be seen from the above numbers and issues, a radical change is being made in the system of higher education in our republic. This, in turn, requires qualified specialists with comprehensive and professional competence, as well as the wide use of digital technologies in the educational process.

Research methodology. In writing this article, the purpose of using digital technologies in the higher education system of our republic, to determine the priority directions for the development of the educational process based on the analysis of their possibilities, is set, in which digital technologies have an important place not only in the field of education analyzes were carried out on its acquisition and in what form it will be introduced. As research methods, the study, systematization and generalization of normative documents, existing practice were used to draw up conclusions related to the formation of a scientifically based approach to the introduction of digital technologies in higher education.

Digital technologies make it possible to direct the educational process not only to fulfill the requirements of professional and educational standards, but also to form a specialist who is adapted to work in the conditions of digital technologies and is capable of independent self-improvement with the help of information technologies and services.

Improving the organization of the educational process in higher education institutions related to

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the choice of educational content, tools and technologies, effectively solving the issues of improving its quality, identifying the objects, subjects and processes of training and rehabilitation of future specialists. It means to present them in the form of systems, their optimization, usability, etc. diagnosis for decision-making is inextricably linked with the organization of a system based on the bachelor's model. In the process of pedagogical diagnostics, the expert model is of particular importance as part of the integrated system, which acts as an element connecting all other components.

It is not surprising that the educational system today is absorbed by digital technologies, because it serves as a basis for serious analysis and pedagogical justification of many things that are offered in the information space today. It is also important that in recent years, no research has been conducted on the problems of "digitalization" of education, its impact on its formation, based on any state project or survey [4]. The effective use of digital technologies in the educational process, while maintaining the quality of teaching, can be implemented through the following structure (Figure 1).

Separately, it should be noted that today our life is connected with technology and technology in every way, that is, from the early hours of the morning to planning the day and ending with studying, we directly work with them. We wanted to create an opportunity for beneficial use of technologies to improve and develop the quality of education. When the tablet becomes an element of learning, students are more interested in the learning process. It is equivalent to combining classical education with play. As a result, the learning process improves, assimilation, level of education and efficiency of personnel training increases. Educated and knowledgeable young people, professional personnel - this is a guarantee of the development of the society on a large scale.

## CONCLUSION

In conclusion, today's classrooms are very different from ten or fifteen years ago, and classrooms are equipped with computers, iPads, tablets, smart boards and other types of educational technology. As in other parts of the world, the seven-screen generation of the digital generation - televisions, computers, tablets, phablets, smartphones and smartwatches - is emerging in our Republic. As a result of having such a dense digital environment and constant interaction with it, the thinking and information processing processes of today's students are fundamentally different from the previous thinking and information processes. The digital generation cannot and should not be taught the way our parents learned. It is impossible to use old technologies (blackboard and white chalk) in teaching this generation [4].

Adaptation of the educational system to the digital generation through mass and effective use of innovative educational technologies and didactic models based on modern information and communication technologies is the need of the hour.

In addition, it is necessary to actively use the research-based approach in the educational process, and with this, it is possible to develop the skills of students in scientific research and to form their creative abilities and creative thinking based on IT competence. Information and communication

technologies are not a solution to all problems in the education system, but a tool for making lectures and seminars informative and interactive for the digital generation. It should also be noted that teachers retain the main role in the interactive learning process focused on the needs of students.

The skill and reputation of the teacher in front of the students and the effectiveness of his activity are not only the level of knowledge in the content of the subject he teaches and his pedagogical ability, but also the collection, processing and teaching of certain educational material and the teacher's ability to use this knowledge. depending on the level of application of modern information and communication technologies, it is considered to be brought to the minds of students. In other words, education in the digital age must be rethought and the educational paradigm changed, because students no longer want to learn in the traditional way, and teachers continue to teach in such a conventional way today. time itself denies.

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