IMPROVING THE MECHANISMS OF USING DIGITAL TECHNOLOGIES IN THE MANAGEMENT OF GENERAL SECONDARY EDUCATION INSTITUTIONS

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Abstract

The article highlights the relevance of digital technologies in the management of educational institutions in modern Uzbekistan, its content and essence, mechanisms and ways of using digital technologies in the management of educational institutions.

Key words: digital technologies, management, mechanisms, general secondary education and educational technologies.

Today, the formation of new social relations in our society, the integration of education into the world education system, the development of democratization and humanization processes require the use of modern pedagogical technologies and digital technologies in the management of general secondary educational institutions.

Currently, many teaching technologies and trainings are widely used in educational processes aimed at activating the learning and learning activities of students. Including: problem-based learning, cooperative learning, project, case, various games representing work, training, organization of debates (point of view, talk shows), etc. [3, 5, 6].

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The words of the President of the Republic of Uzbekistan, Sh.M. Mirziyoev, "We will mobilize all the strength and capabilities of our state and society so that our youth can become independent thinkers, have high intellectual and spiritual potential, become people who are not inferior to their peers in any field in the world, and be happy." today it is causing step-by-step changes in the educational process.

In the process of globalization and integration of education in the world, in the era of digitization, many countries of North and Central Asia have been widely promoting activities, research and development to use the growing digital potential. On the basis of advanced foreign experiences, it is important to further improve and develop the mechanisms of using digital technologies for students and teachers based on the formation of an innovative educational environment of the modern education system, the wide application of interactive teaching methods and technologies.

Nowadays, the coronavirus pandemic, which worries the whole world, has become a global problem, and the impact of the coronavirus pandemic is affecting remote work in the field of education. All educational workers and students are in quarantine. It is no exaggeration to say that the owners of distance education are a little confused in this situation. This artistic statement should put the current situation in a positive direction and take this situation as an opportunity. Therefore, according to the conclusions of education experts, the directions of education development are being revised after the coronavirus pandemic; a new era of education, a modern digital education system begins. In the management of education, the widespread promotion of digital educational technologies and the use of the world's education system, educators and learners need to acquire skills and competencies.

Large-scale reforms carried out in our country during the years of independence, strengthening national statehood and sovereignty, strengthening security and law enforcement, the inviolability of our country's borders, and ensuring the rule of law in society, as well as protecting human rights and freedoms, strengthening inter-ethnic harmony and solidarity, and ensuring an environment of religious tolerance. became one of the important foundations for With the 60th

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Decree of the President of the Republic of Uzbekistan dated January 28, 2022 "On the development strategy of the new Uzbekistan for the years 2022 - 2026" on creating the necessary conditions for the decent life of our people, the creation of creative work of our citizens and the realization of their potential. comprehensive measures are being implemented for the implementation of the development strategy of New Uzbekistan for years. [1, 2].

The use of digital technologies in the management of the world is rapidly penetrating all sectors. Including this, the President of the Republic of Uzbekistan Sh.Mirziyoev has repeatedly emphasized the further development and mechanization of the education system. Today, extensive work is underway on the use and implementation of digital technologies in the strategic management of the education sector.

The 21st century presents new choices, opportunities involving new technologies, and challenges related to the pervasiveness of technology in all areas of life: business and management, government, education, and other academic fields, with reflections on past innovation, developing mechanisms for using digital technologies in the management of general secondary education institutions today. remain pressing issues of the day.

Acquiring skills and literacy in the rational and reflexive use of global and distributed information from the mechanisms of using digital technologies in the management of educational institutions allows to achieve competence and mastery.

Working with digital technologies requires a reflexive and critical approach to their development, as well as an inquisitive, open and forward-looking attitude. The technologies we identified stimulate students' interest in educational activities, develop their logical and creative thinking and digital competence. The presented digital technologies fully fulfill the tasks that serve to make vocational education specialists competitive in the labor market. According to the results of the survey conducted among teachers and students, the main shortcomings in the digitization of the educational process were identified. In particular, it is confirmed that students are not sufficiently prepared to use digital technologies in self-education. It is

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clarified that the low level of digitization is due to insufficient methodological support and incorrect description of the ways of using such technologies in particular didactic situations. As noted, the rapid development of digital technologies and their widespread use in educational activities are the basis for an optimistic forecast of rapid digitization in higher education institutions in the coming years.

Expected scientific news on the topic of improving the mechanisms of using digital technologies in the management of general secondary educational institutions:

1. It is based on the fact that the development of mechanisms for the use of digital technologies in the management of general secondary educational institutions is an urgent pedagogical problem.

2. The current state of the process of using digital technologies in the management of general secondary educational institutions and advanced foreign experiences in this field are analyzed.

3. Development of methods, ways, methods and mechanisms of using digital technologies in the management of general secondary educational institutions.

4. Experimental work on the use of digital technologies in the management of general secondary educational institutions is analyzed and its level of effectiveness is determined.

5. Development of theoretical rules, methodology and practical tools for managing the digital transformation of the socio-economic sphere;

6. Basing on the creation and development of digital platforms.

Improving management is the most important factor in increasing production efficiency in any industry. The improvement of management forms and methods is carried out on the basis of the achievements of new or modern scientific and technical development, the further development of informatics, which studies the laws and methods of collecting, processing and transmitting information with the help of electronic computing machines (computers).

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In the process of developing the mechanisms of using digital technologies in the management of general secondary educational institutions, the following tasks are solved:

✓ study the fundamental principles of organizing modern information technologies;

✓ review of information systems and technologies at different levels of management;

✓ consideration of management issues using modern information technologies;

✓ to acquire the skills of using general and special software products;

✓ to develop the ability to independently solve problems related to decision-making in economic systems based on learned methods and methods of working with information systems and technologies;

✓ to develop the ability to make independent decisions on the introduction of certain information technologies for management purposes;

✓ study various areas of application of information systems and technologies in modern society.

In this article, we argue that we need to bridge the gap between the development of mechanisms for the use of digital technologies in the management of general secondary education institutions, the hope and confidence of digital school changes, and the actual state of technology use in teaching.

In the management of general secondary educational institutions, digital technologies, unlike analog, work with discrete rather than continuous signals. Digital technologies are mainly used in computing digital electronics, first of all in computers, gaming machines, radio electronic devices, telemechanics robots, robotics, and now in the educational fields of electrical engineering.

Even 30 years ago, we used books, mass media or interacted with people to get new information. Now, digital technologies are widely used in the management of general secondary educational institutions.

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What is digital technology and how did it come about? The foundations of the modern binary number system were laid by the mathematician Karl Leibniz in the 17th century. In the twentieth century, it began to be used for software calculations:

Later, in the middle of the 20th century, digital technology refers to technologies that convert information into a continuous (discrete) set of 0's (no signal) and 1's (signal present). They were compared to analogues, where data is a continuous stream of electrical rhythms of different amplitudes with an infinite number of values.

One of the digital technologies, multimedia, is an embodiment of delivery of educational materials to students based on traditional and original types of information based on software and technical tools of informatics. Multimedia is currently a very fast developing modern information technology, which includes:

- the game objects displayed on the screen are given an animation object and they are constantly moving and shining;

- sound;

- music;

- animation;

- multiplication, etc.

– traditional information types, i.e. text, table, various decorations and original information types;

- information types in the form of fragments from video films, TV frames, animation (movement of objects in space) are embodied in one software product;

- the speed of the central processor for processing and displaying video and audio information on the computer, the bandwidth of the data transfer bus.

In the process of communication, the user receives a wide range of comprehensive information, which allows to improve the conditions of education, work or recreation.

In the development of mechanisms for the use of digital technologies in the management of general secondary educational institutions, in simple terms, digital technologies include everything related to electronic computing and data

conversion: gadgets, electronic devices, technologies, programs. Compared to analog, digital technologies are more suitable for storing and transmitting large amounts of data and provide high-speed computing. At the same time, the information is transmitted as clearly and intact as possible. The main disadvantages include high energy intensity and negative impact on the climate.

The following are the skills that public education departments and school leaders need to develop mechanisms to use digital technologies in the management of general secondary education institutions and to succeed in a technology-rich environment:

- determining the need for information to solve or verify each problem;

- find materials and things necessary for information;

- efficient use of information system in regulation and problem solving;

- working in a team in the form of cooperation;

- use of creativity in solving problems;

- learning new concepts and quickly mastering new ideas;

- leading new initiatives and being independent;

- collection and organization of facts;

- making systematic comparisons;

- identification and development of alternative solutions;

- solving problems independently.

However, there is a need for a trained teacher who is familiar with the new teaching and is ready to tackle learning scenarios and teaching challenges in "Knowledge". Society appears as one of the most important points in the field of education.

The development of mechanisms for the use of digital technologies in the management of general secondary education institutions and the creation of a methodology for its use is a combination of a competent approach.

The need to use digital technologies in the management of general secondary education institutions is as follows:

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• training based on network programming algorithm modules to provide educational materials and modern information technologies in the management of general secondary educational institutions;

• development of principles of formation of platforms and use of modern software technologies in the management of general secondary educational institutions;

• provision of educational technologies in the management of general secondary educational institutions and development of methodology for test monitoring procedures and software.

Digital technologies are changing the format of teaching and learning, making information a connecting tool between teacher and student in the learning process.

In short, the world has come to a time when the potential of using digital technologies in the management of educational institutions and the scientific level of society is determined by the total power of computers and the technological perfection of information processing. The use of digital technologies in the management of educational institutions is the most important task that requires the equipment and development of fundamentally new production modular programs and technologies that increase the ability to process information.

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