

USE OF MODERN DIGITAL TECHNOLOGIES IN THE LECTURE COURSES OF THE HIGHER EDUCATION SYSTEM

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ABSTRACT

In this article, the priorities for the development of the educational process have been determined based on the use of modern digital technologies in the educational system of our republic and the analysis of their possibilities.

Keywords: Digital technologies, information and communication technologies, digital school, digitization, modern education, digital knowledge, Internet system, distance education.

OLIV TA'LIM TIZIMI MA'RUZA MASHG'ULOTLARIDA ZAMONAVIY RAQAMLI TEXNOLOGIYALARDAN FOYDALANISH.

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Annotatsiya:

Mazkur maqolada respublikamiz ta'lim tizimida zamonaviy raqamli texnologiyalarni qo'llash, ularning imkoniyatlarini tahlil qilish asosida o'quv jarayonini rivojlantirishning ustuvor yo'nalishlari aniqlangan.

Kalit so'zlar: raqamli texnologiyalar, axborot-kommunikatsiya texnologiyalari, raqamli maktab, raqamlashtirish, zamonaviy ta'lim, raqamli bilimlar, Internet tizimi, masofaviy o'qitish.

ИСПОЛЬЗОВАНИЕ СОВРЕМЕННЫХ ЦИФРОВЫХ ТЕХНОЛОГИЙ В ЛЕКЦИОННЫХ КУРСАХ СИСТЕМЫ ВЫСШЕГО ОБРАЗОВАНИЯ.

Аннотация:

В данной статье определены приоритеты развития образовательного процесса на основе использования современных цифровых технологий в системе образования нашей республики и анализа их возможностей.

Ключевые слова: цифровые технологии, информационно-коммуникационные технологии, цифровая школа, цифровизация, современное образование, цифровые знания, система Интернет, дистанционное образование.

INTRODUCTION

Today, digital technologies are actively used in all spheres of life. They contribute to the rapid development of the economy, banking, service sectors, as well as the educational process. With the undeniable benefits of the technologies based on the use of numbers and implemented, issues related to the protection of personal data, legal aspects of competition between robots and employees of organizations are increasingly being paid attention to. In this regard, as the President of our country Shavkat Mirziyoyev noted, "In order to achieve progress, it is necessary and necessary to master digital knowledge and modern information technologies. This gives us the opportunity to take the shortest path to progress. After all, today information technologies are deeply penetrating all sectors of the world. Of course, we know very well that the formation of a digital economy requires the necessary infrastructure, a lot of money and labor resources. [1, 5].

Digital technology is a modern form of business. In it, a large set of digital data and the process of processing them serve as the main factor in production and management. The practical application of the results obtained allows achieving much greater efficiency compared to traditional forms of economic management. Examples include various automated production processes, 3D technology, cloud technologies, remote medical services, production and delivery of products using smart technologies, and the processes of storing and selling various types of goods. [2, 43].

The transition to digital technologies can be defined as follows:

- By the transition to digital technologies, we mean the creation of a completely new type of development of society and economy based on computers and knowledge;
- As the main components of the transition to digital technologies, mobile social networks, cloud technologies, sensor networks, Internet of Things and artificial intelligence technologies that enable work with information can be cited as examples;
- The above technologies together allow the creation of "smart" objects and processes (smart state, smart home, smart city, healthcare, transport and entrepreneurship).

Today, digital technologies are:

- a means of effective delivery of information and knowledge to students;
- a means of creating educational materials;
- an effective teaching method;
- a means of creating a new educational environment: developmental and technological.

Modern digital technologies:

- A technology for joint experimental research of a teacher and a student.
- "Virtual reality" technology.
- "Panoramic images" technology.
- "3D modeling" technology.
- "Educational robots" technology.
- ITI technology (use of small information tools).
- Multimedia educational content.
- Interactive electronic content.

Initially, the teacher organizes observations and sets up demonstration experiments, together with the students obtain facts from which conclusions can be drawn about a particular

phenomenon. Based on the facts obtained, the teacher and students try to explain the observed phenomena and identify patterns (hypotheses are put forward), determine the results, and determine the causes. After that, students and teachers think about what test experiments can be set up, what their ideas and goals will be, how to implement them. Students implement their ideas in independent laboratory experiments, the results (new facts) are compared with theoretical predictions and conclusions are drawn. This technology provides the following opportunities:

- 1) to introduce students to the process of cognition;
- 2) arming with elements of general approach knowledge, which is important for further education and life;
- 3) involving students in various educational activities and providing them with practical and intellectual, thus a wide range of cognitive activities, their psychological development and independence.

In conclusion, it can be said that today's classrooms are very different from those of ten years ago, and classrooms are equipped with computers, smart boards and other types of educational technologies. As in other parts of the world, seven screen generations of the digital generation are emerging in Uzbekistan - television, computer, tablet, phablets, smartphones and smartwatches. It is necessary to adapt the education system to the digital generation through the mass and effective use of innovative educational technologies and didactic models based on modern information and communication technologies.

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