



## **International Congress on Economics, Management and Business Studies**

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### **PEDAGOGICAL SIGNIFICANCE OF USING DIGITAL TECHNOLOGIES IN PRESCHOOL EDUCATION**

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#### **Abstract**

This article analyzes the theoretical and practical foundations of using digital technologies in preschool education. The impact of information and communication technologies on child development, the necessity of improving teachers' digital competence, and the importance of creating an innovative educational environment are discussed. The advantages and challenges of implementing digital technologies in preschool educational institutions are examined, and recommendations for improving educational quality are provided.

**Keywords:** Preschool education, digital technologies, innovative pedagogy, ICT, educational quality, digital competence.

#### **Introduction**

In today's era of globalization, digital technologies are widely used in all spheres of society. The education system is no exception. In particular, the use of modern pedagogical and information technologies in the preschool education system is one of the important factors in improving the quality of education. The preschool period is the most important stage in the formation of a child as a person. It is during this period that the child's worldview, thinking skills, communication culture and creative potential develop. Therefore, equipping children with modern knowledge and skills, forming an information culture in them is one of the urgent issues.



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A number of reforms are being implemented in the Republic of Uzbekistan to develop the preschool education system. Improving the quality of education, creating an innovative educational environment in line with international standards, and introducing modern technologies into the educational process are identified as one of the priority areas of state policy.

**Relevance of the topic.** Digital technologies are becoming an integral part of human life. Children also get acquainted with various electronic devices from a very early age. Therefore, preschool educational institutions should not be left out of this process. With the help of digital technologies, it is possible to: enrich the content of education;

organize classes in an interesting way;

ensure an individual approach;

develop independent thinking of children;

strengthen cooperation between teachers and parents. The work being carried out in our country to create a digital educational environment shows the need to apply innovative approaches in preschool educational organizations as well.

In the field of pedagogy, there are many scientific views aimed at improving the educational process. According to modern pedagogical concepts, the child should be an active participant in the educational process. Digital technologies are based on the following pedagogical principles: Children actively participate in the educational process, complete interactive tasks and make independent decisions. The principle of demonstration. With the help of multimedia tools, complex concepts can be conveyed in a simple and understandable form.

The principle of individualization. Tasks are given that are appropriate for the abilities and level of development of each child.



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The principle of integration. Different disciplines and types of activities are combined into a single system.

The following technologies are widely used in preschool education:

Multimedia technologies. Multimedia tools present information by combining text, images, sound and video. Such tools attract the attention of children and help them effectively assimilate knowledge.

Interactive whiteboards. Interactive whiteboards allow children to work with pictures, play games and complete tasks.

Electronic educational resources. Electronic textbooks, animated materials and educational videos make the learning process of children interesting.

Mobile applications. With the help of educational applications, children learn letters, numbers, colors and shapes.

Virtual excursions. Through virtual trips, children have the opportunity to get acquainted with different parts of the world.

The impact of digital technologies on children's development. Cognitive processes in preschool children are actively developing. Digital tools support this development.

Intellectual development. Interactive activities develop a child's thinking, memory, and attention. Visual information helps to assimilate knowledge faster.

Speech development. Through audio materials and educational programs, children's vocabulary increases and a culture of speech is formed.

Creative development. Digital drawing programs and multimedia projects develop children's creative abilities.

Social development. Group interactive classes form cooperation and communication skills in children.

Digital competence of teachers. One of the main factors of the quality of education is the teacher. A modern teacher must not only have excellent



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knowledge of his subject, but also be able to effectively use digital technologies.

A teacher must have the following competencies:

computer literacy;

use of Internet resources;

preparation of multimedia materials;

work on electronic platforms;

ensuring information security.

Regularly improving the skills of teachers in ICT has a positive effect on the quality of education. Using digital technologies in cooperation with parents. The effectiveness of preschool education also depends on cooperation with parents. Digital technologies further strengthen this cooperation. For example: Telegram groups; electronic diaries;

online consultations;

video conferences;

electronic reports.

Through these tools, parents can regularly monitor their child's development.

Advantages of using digital technologies in preschool education. Digital technologies provide the following advantages: The quality of education increases.

Children's interest increases. The effectiveness of knowledge acquisition increases. The opportunity for individual education is created. Cooperation with parents is strengthened. The effectiveness of pedagogical activity increases. An innovative educational environment is formed. Existing problems. Nevertheless, there are some problems: lack of technical equipment;

low quality of the Internet;

insufficient training of educators in ICT;

lack of electronic resources;



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low digital literacy of some parents. Solving these problems is one of the important tasks facing the state and educational organizations.

Proposals and recommendations. Based on the results of the study, the following recommendations were developed: Providing preschool educational organizations with modern equipment. Organizing regular ICT training for educators. Developing national e-learning platforms. Organizing digital literacy courses for parents. Increasing interactive educational programs. Study and implementation of international experiences.

### **Conclusion**

The use of digital technologies in preschool education is one of the important directions of modern education. They increase children's interest in learning, ensure their intellectual and creative development, and improve the quality of education. The preschool education system can be further improved by developing the digital competencies of teachers and providing educational institutions with modern technology.

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