



## APPLICATION OF INNOVATIVE PEDAGOGICAL TECHNOLOGIES IN PRESCHOOL AND PRIMARY EDUCATION

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### 1. Introduction

Innovative approaches in the modern education system are gaining urgent importance day by day. It is especially important to attract the attention of students at the stages of preschool and primary education, to encourage independent thinking and to use innovative pedagogical technologies to organize education in an interactive way.

Children's thinking, speech, aesthetic taste and social skills are formed in preschool education. Primary education lays the foundation for the scientific, social and spiritual development of students. Therefore, in order to increase the effectiveness of education at these stages, along with traditional methods, modern pedagogical technologies, i.e. ICT, interactive methods, didactic games, STEAM technologies, and the use of electronic resources are necessary.

This article examines the advantages of using innovative technologies in the preschool and primary education system, practical examples and their effectiveness.

### 2. Research Methods

The research was conducted in primary classes of 5 pre-school educational institutions and 3 general secondary schools of Khorezm region. The following methods were used during the study:

**Poll:** 25 preschool teachers and 30 primary school teachers participated.

**Observation:** 10 lessons and 5 training processes were observed, and the real practice of innovative technologies was evaluated.

**Analysis:** The types of innovative technologies used in the lessons and their results were analyzed based on students' participation, knowledge acquisition and motivation.

The following were considered as innovative technologies:

ICT (information and communication technologies)

Multimedia lessons

Interactive methods (cluster, insert, "brainstorming", "thoughts herald")

STEAM approach (integration of science, technology, engineering, art and mathematics)

Playful pedagogy (didactic games, dramatization, theater elements)

### 3. Results

According to the results of the survey and observation, the following main cases were identified:

#### In preschool education:

92% of educators actively use didactic games and visual materials in class activities.

In 68% of cases, electronic resources (video, audio fairy tales, cartoons) served to increase the participation of students.

In activities where STEAM elements were used, children were more prone to independent thinking and research.

#### **In primary education:**

In the lessons using interactive methods, the level of students' knowledge acquisition was 18% higher (based on comparative analysis).

In ICT-based lessons, students had high learning, concentration and motivation for the lesson.

85% of teachers believe that innovative technologies increase the quality of education, but 30% of teachers face technical and methodological problems in using these technologies.

#### **4. Discussion**

The studied data show that the effective use of innovative pedagogical technologies in preschool and primary education is not only students it facilitates the process of learning, but also increases their interest in the lesson, forms independent thinking and a creative approach.

The results of the research were previously conducted scientific research (for example, Karimova Sh. 2020; Khudoyberganov is in harmony with A. 2019). However, existing problems —, in particular, aspects such as technical training of pedagogues, flexibility of educational programs, lack of Internet infrastructure should be solved.

As a result of the discussion, the following conclusions were reached:

In order to ensure the effectiveness of innovative technologies, it is important to constantly improve the skills of pedagogues.

Each lesson should be chosen according to the appropriate and targeted technology. Not every innovative technology is suitable for every lesson.

It is possible to strengthen the effectiveness of technological approaches by involving parents in the educational process.

#### **Conclusion**

Pre-school and primary education stage — is one of the most important foundation stages in the development of children's personality formation, outlook and attitude to educational activities. Research results show that innovative pedagogical technologies are at these stages:

Makes the learning process interactive and interesting;

Attracts children's attention and increases motivation;

Forms skills such as independent thinking, problem solving, group work;

Allows faster acquisition of information through visual, auditory and kinesthetic methods;

Provides effective communication between the teacher and the student.

However, some problems are observed in the introduction of innovative technologies. Specifically:

Many teachers and educators are still teaching based on classical methods;

Technik lack of tools or insufficient skills in their use;

Curricula are sometimes not adapted to innovative technologies;

Due to the weak internet infrastructure in rural areas, widespread use of ICT is limited.

Thus, a systematic and comprehensive approach is necessary to fully utilize the capabilities of innovative technologies.

#### **Offers**



Below are a number of practical suggestions for improving the quality of education and effective use of innovative technologies:

### 1. Continuous training of teaching staff

It is necessary to organize seminars and master classes on innovative technologies for teachers and educators every year.

The number of practical trainings that teach the practical application of innovative methods should be increased.

In-depth courses on working with modern technologies should be introduced for teachers in pedagogical directions of higher education institutions.

### 2. Provision of technical equipment and resources

Every school and MTT should be provided with multimedia devices, interactive whiteboards, tablets and high-speed Internet.

A library of digital resources (video lessons, interactive tests, game programs) that teachers can use in educational institutions should be created.

### 3. Adaptation of educational programs to innovations

Elementary and preschool programs should be flexible, modular, and open to technological approaches.

Model lesson plans should be developed on the basis of innovative technologies for each topic.

### 4. Step-by-step introduction of STEAM education

From preschool age, creative activities should be organized, combining science, technology, art and mathematics.

STEAM by organizing laboratories, children's creative and critical thinking skills are formed.

### 5. Attracting parents

The role of parents in the use of innovative educational technologies is important. Therefore, explanatory seminars and open classes should be established for parents.

It is recommended to support children's use of technological teaching methods even at home.

### 6. Special attention to rural areas

State programs should be developed to expand the possibilities of using ICT in educational institutions in rural areas.

Through mobile educational laboratories and portable devices, these institutions should also be provided with innovative technologies.

Introduction of innovative technologies to preschool and primary education — is not just innovation **the quality of education is a strategic necessity that leads to the development of children's thinking and creativity.** Expected results can be achieved in this field only through a systematic approach, personnel training, strengthening of the technical base and cooperation of educational participants.

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