



Research Article

## THE ROLE OF APPLYING INNOVATIVE TECHNOLOGIES IN IMPROVING THE QUALITY OF EDUCATION

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### ABSTRACT

The article highlights the role of innovative technologies in improving the quality of education, in which the reform of the education system and the transition to a new system create the need for the active implementation of pedagogical innovations. To form an innovative education system, it is necessary to introduce innovative information and technological capabilities into the educational system and study international educational experience. This article outlines thoughts and opinions on the prospects for using innovative technologies in education.

### KEYWORDS

Innovative technologies, education, quality, training, education system, new scientific knowledge.

### INTRODUCTION

Today's world is an era of innovation, where without education it is impossible to make a career, find a job and get a higher position. Today,

more than a billion students study in universities around the world, including in Uzbekistan. Reforms in the field of education in Uzbekistan

have radically changed not only the content of the system, but also its structure. In a short time, all levels, components and directions were changed. The priority areas of change were investments, the main features of which were supposed to contribute to the education of a new person with intellectual development and higher education.

In the modern world, with the growing influence of human capital, the importance of education is increasing as the most important factor in the formation of a new quality of economy and society. The education system in Uzbekistan can compete with the educational systems of advanced countries. Currently, education creates the necessary conditions for a stable pace of socio-economic development of society, makes a significant contribution to the creation of national wealth and maintaining the economic security of the country. Therefore, the use of innovative technologies to improve the quality of education is of great theoretical and practical importance.

### Analysis of literature on the topic

The psychological aspect of innovation was developed by one of the American scientists E. Rogers. He studied the classification of participants in the innovation process, their

attitude towards innovation, and their readiness to accept it. The concept of “innovative educational technologies” has a broad meaning. To explain this concept, first of all, it is necessary to dwell on each of the concepts of “innovation”, “education” and “technology”.

“Innovation develops through the use of research activities aimed at obtaining new scientific knowledge, some discoveries, and inventions. In addition, the emergence of innovations can also be the result of project work. It develops instrumental and technological knowledge that reflects the possibility of practical action based on existing scientific theories and concepts. In this way, innovative projects are created, which subsequently lead to the emergence of new technologies.” [9,9]

Innovative educational technology is a methodology for organizing educational activities, including updating or qualitatively improving existing methods and means in order to increase the efficiency of the educational process and create the best conditions for educational activities.

Let's think briefly about education. What is education itself?

“Education is the most reliable investment in the development and future of a nation. Like other types of capital, human capital is formed through investment, and this investment is called education. The quality of education provided at school serves as the basis for further education. The quality of education at school ensures the strength of the foundation for the future.” [2, 189]

According to N.A. Muslimov and others, “In modern conditions, it is required that the educational process be aimed at personal development, socialization and nurturing the abilities of independent, critical, creative thinking, taking into account all possibilities.” [3, 5]

And according to V.S. Kukushkina, “Traditionally, education means the process and result of mastering certain knowledge, skills and ways of thinking that are necessary for a person to fully integrate into the social and cultural life of society and perform certain professional functions. In this sense, the idea that education is the same life support system as social production is correct.” [4, 9]

V.V. Kraevsky notes that, “from the point of view of social functions, education is a means of

transmitting social inheritance, social experience to subsequent generations. Education as a social phenomenon becomes the object of study of the science of society - sociology. In relation to an educated and educated person, education is a means of developing his personality, and his psychological structure is certainly studied by psychology.” [5, 36]

“The education system is a social institution purposefully developed by society, characterized by a system of organized relations and social norms that correspond to the needs and requirements of a particular society and its socialized personality.” [6, 7]

“The reforms being implemented in our country in the education system require changes and improvements in the mechanisms for managing the education system, i.e. rejection of administrative-command management methods and adoption of a management system based on democratic principles that meets social and economic requirements” [7, 15]

According to A. N. Lobanov and others, “The formation and development of a system of lifelong education is the primary strategic task of the state, and this is an institution capable of

ensuring its solution at the national level and taking into account the prospects for comprehensive development. Continuing education directly depends on the effectiveness of public administration, the development of civil society and its ability to self-organize and determine its destiny, the level of realization of human rights.” [8, 26]

Innovation in education includes complex activities aimed at the emergence of innovations in the field of teaching and learning. These innovations represent methods and methods of organizing the educational process, resources, scientific theories and concepts used in the process of teaching and upbringing. Innovations also develop in the process of educational activities. During the educational process, students acquire theoretical and practical knowledge, which can later be used in various areas of practical life related to the creation of innovations.

## METHOD

The study used economic analysis, statistical grouping, systematic and comparative analysis and other methods.

## RESULTS

In the process of consistent implementation of the National Program in the Republic of Uzbekistan, a system of continuous public education has been formed. It consists of several stages: from preschool education to retraining courses.

After gaining independence, the education system in Uzbekistan changed radically: a large-scale reform was carried out, in which care for the younger generation and attention to the spiritual, moral and physical development of children were given first place. How are things going with education in Uzbekistan today?

In addition to traditional forms of education, in recent years such an innovative form as distance education using distance education technologies has become increasingly widespread. This form is widely used in foreign pedagogical practice, and its superiority over the traditional one has been proven.

With the development of scientific and technological progress, the amount of information required for development increases. It turned out that the data quickly becomes outdated and requires updating. It follows that

training aimed primarily at memorizing and memorizing material may partially meet the requirements of the present time.

The development of society places new demands on the education system and forces us to constantly look for new opportunities for development. There are different types and systems of education in the world. Существует множество общих проблем, которые отражают общую тенденцию развития системы образования для всех и помогают лучше понять конкретные задачи, стоящие перед той или иной национальной системой образования. Проблема развития высшего образования как важнейшего государственного учреждения, имеющего научно-исследовательскую, образовательную и воспитательную роль, занимает здесь важное и, пожалуй, центральное место.

Thus, it is planned to allocate 2.2 trillion soums for the further development of science in 2024, or 26% more than expected to be implemented in 2023. In particular, in 2024: it is planned to allocate 1 billion 002 billion soums for the costs of increasing the number of quotas allocated for doctoral studies, within the framework of which the number of new admission quotas will be

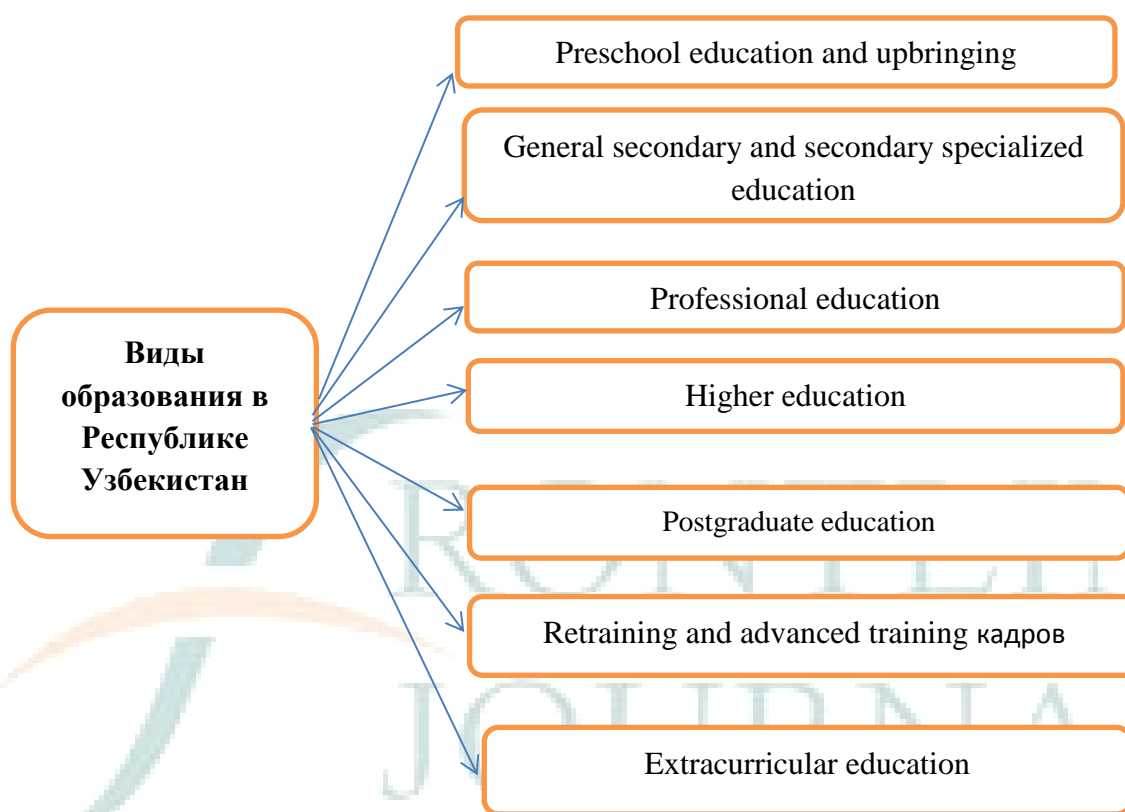
increased from 4300 to 4700 places this year, as well as for those who work introduction of a grant quota of 500 places for doctoral students in higher education and research institutions; It is expected that 800.0 billion soums will be allocated to the fund for supporting innovative development and innovative ideas. It is planned to allocate 693.5 billion soums from the fund to finance projects within the framework of government programs related to scientific activities. [10, 67]

In full accordance with the national personnel training program, education in our country is carried out in the following forms: “preschool education, general secondary education, general secondary education, secondary specialized, vocational education, higher education, postgraduate education, advanced training and retraining of personnel, out-of-school education. » [1]

The main feature of the program is continuity of education. Everyone has the opportunity to acquire knowledge, professional skills and specialties throughout their lives. This program creates an effective mechanism for the educational system, and its main components are: the formation of a free-thinking personality, its

moral, spiritual and physical development, respect for the individual, the disclosure of creative potential and abilities, progressive

learning, the acquisition of professional skills and full self-awareness of the individual in life. (Fig. 1)



**Rice. 1. Educational process in the Republic of Uzbekistan [12]**

For example, the goal of preschool education is to ensure the development and education of a healthy generation. It should reveal the abilities of each child, evoke a desire to learn, so that the child is ready to learn new knowledge at school. Consequently, the quality of education can be

improved through the use of innovative technologies in the educational process.

“The peculiarity of using innovative technologies in the classroom is that they are implemented through the joint activities of the teacher and students. The educational process includes the



activities of the teacher and students. The teacher's activities include explaining educational material, increasing students' interest in science, deepening their thinking and forming beliefs, guiding students' independent activities, testing and assessing their knowledge, skills and abilities. [11]

Currently, in the world education system, a direction has emerged for developing theoretical foundations and methodological tools for strengthening creative thinking and searching for new technical thinking. This shows that the development of the scientific foundations of creativity, the development of methods for enhancing the creative process, training in innovative teaching methods, the creation of favorable conditions for creativity in scientific, design, construction and technological organizations, enterprises and universities.

"It has long been known that modern education creates the opportunity for a specialist to achieve success in a future career. In the learning process, a complex of necessary knowledge and skills, a professional attitude, readiness for certain types of activity and its structure are formed. Education determines the level of development of certain abilities and even corrects and shapes the

individuality or personal characteristics of a specialist. [9, 4]

It can be noted that innovative technologies help improve the quality of education. Added an automatic search tool to collect information from online information sources, increase the number of users and quickly find services to ensure the effectiveness of certain Internet searches. Search engines allow you to search for documents, multimedia files and software on the Internet, as well as access information about organizations and individuals. Using the instrumental network, you can gain access to educational courses, scientific methods in real time, and organize the process of gaining knowledge about the work of scientific consultants based on virtual educational samples (webinars, conferences).

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There are a number of important information and telecommunication technologies for distance learning. Examples of such technologies include various video technologies. Recording and accompanying tools allow multiple students to simultaneously listen to lectures from top teachers. It should be noted that in the United States of America and in some European countries, information and telecommunication technologies are one of the main sources of information, which is then used both in printed publications and in the form of video information. By introducing modern innovative technologies into education, teachers can change the content, methodology and form of organization of education. Educational information technologies are a necessary tool with which teachers can achieve certain additional results in the learning process, which include increasing the intellectual abilities of students and improving the quality of education at all levels.

Modern innovative tools and training make it possible to influence complex emotions, develop thinking, activate creativity, arouse interest in activities and, in general, create a comprehensively developed personality. The use of new information technologies can change traditional educational materials and lead to an immeasurable increase in the level of their absorption.

The introduction of innovative technologies is carried out in the following areas:

- creating presentations for classroom activities (lectures, seminars);
- work with Internet resources;
- use of ready-made educational programs;
- development and use of own software.

One of the most successful ways to prepare and present educational material is to prepare a local presentation.

Research shows that people remember 20% of what they hear, 30% of what they see, and more than 50% of what they see and hear at the same time. Therefore, modern presentation is based on



facilitating the recognition and memorization of information with the help of vivid images.

In addition, the presentation allows the teacher to independently select educational material based on the characteristics of a special topic, and this allows him to structure the lesson in such a way as to achieve maximum effectiveness in teaching.

## CONCLUSION

In conclusion, we can say that the use of modern innovative technologies in education greatly facilitates the teacher's work and improves the quality of education. Innovative tools help improve the organization of education, increase the individualization of education and improve its quality. Innovative technologies increase students' desire and need to learn, and also help them actively participate in creative activities. This leads to the formation of new content and essence in the education system, in particular the organization and implementation of educational processes, the development of educational and methodological support, especially increasing the efficiency of passing and mastering training sessions. With the development of time, many innovations appear in all spheres of life,

especially in pedagogy, that is, in the process of teaching and learning. And every reform will help ensure a more successful and secure future. Reforms of the educational process, innovative technologies provide the young generation with fast and effective education, and this has been proven by the experience of many countries, especially Uzbekistan.

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