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METHODS OF USING INNOVATIVE TECHNOLOGIES IN THE EDUCATION PROCESS

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ABSTRACT

This article talks about innovative technologies and methods of using these technologies in the course of teaching. Innovative activity implies a creative approach of a pedagogue to mastering existing forms and tools for improving his profession. It should also be recognized that stable, universally accepted scientific ideas about innovations and innovative activity in education, and stable and universally accepted scientific ideas and classifications about innovative pedagogical activity, classifications have not yet been perfectly formed.

KEYWORDS

Innovation, universalization, technical innovation, financial resources, genetic editing, blockchain, artificial intelligence, innovative technologies, technological generations.

INTRODUCTION

Innovation (English. Innovations—introduced innovation, invention)—1) funds spent on the economy to ensure the replacement of technology and technology generations; 2) innovations in the fields of engineering, technology, management and labor organization based on scientific and technical achievements and best practices, as well as their application in various fields and spheres of activity. Innovation is the introduction of new ideas, products,

services, or processes that increase efficiency or competitive advantage. Innovation can happen in many fields, including technology, business, health, education, and many others. These processes are important for improving human life and contributing to development. There are several types of innovation. These include:

- 1. Product innovation:** creating new or improved products.
- 2. Process innovation:** making production or service processes more efficient.
- 3. Service innovation:** introducing new services or updating existing services.
- 4. Business model innovation:** changing or updating business methods.

Innovation is of great importance to organizations because it helps them gain competitive advantage, meet customer demands, and adapt to the market.

Innovative technologies are advanced, new and efficiency-enhancing technologies that bring about major changes and developments in various fields. These technologies are implemented by creating new products and services, improving existing ones or introducing new work processes. Innovative technologies have a great impact on various spheres of society and economy, and they will continue to develop in the future. Innovative technologies include artificial intelligence, blockchain, big data, internet of things, 3D printing and genetic editing.

Today, regardless of which of the developed countries of the world, in the field of education, especially from the school age, great importance is attached to the development of knowledge about art, in particular, visual and applied art. In our country, there will be another eleven years of secondary education and the establishment of educational centers for career orientation, as well as the artistic and great attention is paid to aesthetic education.

Innovative technologies are innovations and changes to the activities of teachers and students in the pedagogical process, and require the use of interactive methods in its implementation. Interactive methods are based on the activity of each student participating in the educational process, free and independent thinking. When using these methods, learning becomes an interesting activity for the student. When interactive methods are used, students acquire the skills and abilities to work independently with the help and cooperation of teachers. Pupils acquire new knowledge on the basis of scientific research, research, experimental tests. The principle of gaining knowledge through science is followed. Participants of the educational process work in small groups. Assignments are not given to individual students, but to all members of a small group. The main form of organizing the teaching process is the lesson. Currently, various non-traditional forms of lessons are being introduced. Such classes serve to develop the student's creative abilities, strengthen his intellectual potential, expand his scientific worldview, and develop the skills and abilities to quickly and fully accept every new thing. The use of innovative technologies in the course of the lesson arouses interest in scientific research in students, develops creativity and creativity. As a result, acquired knowledge, skills and abilities are applied in practical activities, the quality of learning increases. For this, the teacher should be skilled and plan the lesson according to the content of the topics, and make all the students work actively and consciously during the lesson. After all, the teacher is the main executor of the educational reform. It is important to teach each teacher to learn, process and apply a large amount of information in a short period of time. In solving it, the teacher will be helped by the use of modern information technologies, including

computers, along with traditional methods of teaching.

Pedagogical innovation is innovation in pedagogical activities, changes in the content and technology of teaching and education, aimed at increasing their effectiveness. Innovation is understood as the result of innovation, and the innovation process is the development of three main stages: quality

METHODOLOGY

The President of the Republic of Uzbekistan, Shavkat Mirziyoyev, in his Address to the Oliy Majlis, proposed naming 2018 as "the year of supporting active entrepreneurship, innovative ideas and technologies". The head of our state emphasized the importance of innovation: "Innovation means the future. If we start building our great future today, we should start it on the basis of innovative ideas and an innovative approach. In 2018, among the main tasks of development of innovations in our republic, the following is defined: "In the coming year, the task of developing scientific research and innovative activities, mobilizing the necessary financial resources, supporting the participation of talented young people in this process, creative ideas and developments in all aspects will be in the center of our attention."

Therefore, today it is important to carry out the operation of the system in every field on the basis of innovative ideas and technologies. In this regard, before entering the topic, we found it necessary to dwell a little on the meaning of the word "innovation". The concept of innovation (Latin novus new) began to be used in research and scientific work in the 19th century. First, it represented the introduction of individual elements from one field to another. By

learning the laws of introducing technical innovations, companies have mastered "innovation policy" as a whole system for profit. This activity is considered to have a mechanism for introducing innovations into the common signs and laws of renewing the voluntary part of society's life.

Pedagogical innovation expert V.I. Zagvyazinsky, who has studied the life cycles of various innovative processes, says that, having achieved positive results as a result of the development of innovation, teachers aim to unreasonably universalize it and apply it to all areas of pedagogical practice. It often ends in failure and leads to disappointment. Another structure can be identified. This is the structure of the genesis of innovation derived from the theory of innovation in the field of material production. But if the student has a sufficiently developed imagination, it is very convenient to go to innovative processes at school: the emergence of an idea - development - design - production - use by other people.

DISCUSSION AND RESULTS

The use of innovative technologies in the course of the lesson allows to increase efficiency and increase the interest of students. Here are some methods:

- 1. Interactive presentations:** Visual and interactive presentations can be prepared using tools such as Power Point or Google Slides. You can bring your lessons to life by adding animations, videos, and graphics.
- 2. Online resources and platforms:** Through online educational platforms such as Moodle, Blackboard, Google Classroom, it is possible to distribute course materials, receive homework and monitor student activity.

3. Virtual and augmented reality: through these technologies, students are given the opportunity to learn topics interactively. For example, virtual tours of historical places through VR glasses or chemical experiments through AR applications.

4. Mobile applications: through mobile applications specially designed for students, it is possible to access lesson materials, perform exercises and communicate with the Teacher.

5. Online Seminars and Video Lessons: Conduct online lessons and interact with students in real time via Zoom, Microsoft Teams or Google Meet.

6. Coding and programming platforms: provide students with programming lessons on platforms such as Scratch, Cod.org or repl.it and develop their practical skills.

7. Gamification: motivating students by adding game elements to the learning process. For example, introducing a point system, ratings or awards.

8. Interactive Tests and Quizzes: Using Kahoot, Quiz or Google Forms to test student knowledge and see immediate answers.

9. Creating objects in 3D printing: providing students with practical skills and competencies by creating various objects and models using 3D printers.

10. Cloud technologies: means to store, share and collaborate on documents using services such as Google Drive, Dropbox or OneDrive.

The use of these technologies will greatly help in making the educational process interesting, effective and interactive. It increases the interest of students and improves the quality of education.

CONCLUSION

An important pedagogical condition for the formation of creativity in teachers is to direct it to independent learning and creative thinking. In addition, special attention should be paid to the use of creative environment, specific spiritual and mental state, organizational, methodical and psychological measures among teachers.

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