INNOVATIVE TEACHINF STRATEGIES FOR THE 21st

Hakimova Gulzoda
Qalandarova Sevinch
Students of SamSIFL
Shamuradova Naima Mukhtarovna
Scientific supervisor

Annotation: *This article provides information on ways to make education more effective, how to use modern technologies during the lesson. It talks about the importance and role of innovative technologies.*

Key words: *interactive methods, innovative education, innovation, pedagogical technology, information technology, smart textbook, electronic textbook, smart educational technologies.*

Innovative pedagogical technology, as a pedagogical project, envisages the purposeful organization and implementation of the cognitive activities of pupils (students) on the basics of science. Its different aspects from the methodology:

1. will be designed in advance.
2. the final positive result is guaranteed.

The criterion for determining this result is the level of mastery of the educational material, and each lesson is provided by the effectiveness of the didactic process based on the technology of setting didactic issues and solving them. "We want not only the healthy physical and spiritual growth of our children, but also that they become harmoniously developed people with the most modern intellectual knowledge, fully meeting the requirements of the 21st century. We aim to create all the necessary opportunities and conditions for this." [1]The role of new pedagogical technologies and their introduction is incomparable for the realization of this goal.Today's fast-paced era requires every student to study diligently, learn science and craft from childhood. The educational process is continuous, and its formation depends on reforms that lead to quality results, which are carried out step by step. In fact, modern approaches to education guarantee the effective organization of the educational process with the help of specific tools and the results of successful achievement of the set educational programs.[2]

The education received in primary school serves as a foundation for further education. Primary education defines a qualitatively new person-oriented development model of primary school. [3]One of the promising, priority directions for modern primary education is the development of students as mature individuals and the basis of education in the spirit of national values. We are entering the 21st century, where technology knows no boundaries. This is a radical development stage where technology has taken over every place and corner. Smartphones, laptops and tablets are no longer unknown words. [4]

At this stage, the education system is evolving to improve, because the students of this generation are not born to be limited by the boundaries of normal learning; Their interest is very high and cannot be satisfied by previously developed educational systems.If we continue to teach our children the same as yesterday, we would be depriving them of tomorrow. Our old education system does not stand a chance in the 21st century. Thus, we are forced to use digitization in our education system. Based on the analysis of social processes in the field of education in the countries of the world today, the following paradigms of 21st century education can be listed:

- Lifelong learning, continuous development of personal capabilities, implementation (introduction) of the principle of continuous and lifelong education; - issues of humanization, anthropocentrism (orientation to human interests), respect for the human personality, personal development, attention to problems of universal importance, strengthening the sense of moral responsibility of specialists for their professional activities; In order to accelerate innovative development, wide application of innovations and technologies in all branches of the economy, development of human capital, science and innovation, the National Office of Innovation in cooperation with the UN Economic Commission for Europe organizes regular special seminars for heads of departments responsible for innovation in network enterprises with the participation of international and local experts constitutes.[5]

- issues of development of creative potential, training of inquisitive personnel who are creative, non-standard thinkers, who can find new methods and ways in science, technology and economy, who show initiative;

- issues of democratization, skills of living in a democratic society, active citizenship position based on political and legal knowledge, secular consciousness, formation of feelings of respect for human rights;

- integration of science and production, modern educational process, issues of ensuring that the contents of educational programs correspond to the innovative changes of the state, socio-economic characteristics of the society;

- issues of formation of social competencies to increase the possibility of practical application of knowledge, skills and abilities of a person in his personal, professional and social activities, to take his place in society, to find solutions to problems, to be competitive.

Based on these goals, today's education is directed towards one goal - to make people's spiritual, moral and professional image compatible with the conceptual requirements of the rapidly changing world.

Continuous education is one of the most important concepts of the innovative education model as a manifestation of the basis of the development of every person throughout his life in the conditions of today's global economy .[6] Behind any innovative development lies long-term research and work. The development of the country directly depends on this intellectual breadth.[7] The implementation of developments aimed at improving the quality of human life is a particularly complex process. It is important to

prepare and use informational products to organize the creative activities of students based on cooperation in the educational process. Artificial intelligence or a logical-linguistic model can be effectively used in this process. Knowledge modeling is carried out for different purposes in different scientific fields. In the theory of expert systems, this method is used to solve intellectual tasks by means of a computer. [8]In the learning environment, the teacher appears as both a physical and a virtual expert model. It is very important to acquire generalized abilities for the science of pedagogy.

Because it ensures the assimilation of new knowledge. Spending generalized energy is very necessary in the educational process. Including

1) to attract students to solve specific scientific and practical problems, to create specific interests in them in this process;

2) students' educational work is organized in such a way that it becomes possible to use the logical-linguistic model as a means of solving tasks and as a method of checking their solutions;

3) obtained results should be expressed in electronic forms in most cases.

As a result, students acquire basic computer skills, and each student develops a desire to create the information base they need. In this process, the members of the group begin to work together, each student gets the opportunity to enrich his knowledge base with the help of the knowledge acquired by his teammates. In this, educational materials enriched with new knowledge will help them closely [9], and the teacher should create a cooperative learning environment by using more intellectual tasks.

As a result of the application of this approach to the educational system, a new direction in school education is created. Electronic learning environment means teaching using computer technology.[10] E-learning can provide us with electronic learning resources through information technology and multimedia. In e-learning, teaching is done electronically. Currently, electronic government, electronic education, electronic management, electronic testing and other concepts are widely used in our society. Smart-textbook is an encyclopedia placed on the Internet. Through this, the knowledge that mankind has accumulated over the years can be found and viewed. Materials related to all fields and directions are collected. The textbook is a textbook that fully covers the content of the topics allocated on the basis of the model plan. The content of the training manual should also strictly cover the topics of the model program. It is necessary that the educational methodical guide covers some or all of the topics specified in the model program and explains their methodology and teaching methodology.The role of the pedagogue in innovative education

In the 21st century, the educational process is enriched with new technologies and teaching approaches. In this situation, the role of the pedagogue is becoming more important. A modern teacher should act not only as a provider of knowledge, but also as a guide who reveals the abilities of students. Below are the main roles of a pedagogue in innovative education:

1. Facilitator (Director)

The teacher creates conditions for students to acquire knowledge independently. He guides students in searching for topics, discussing and solving problems. He uses appropriate technologies to make the educational process interactive and interesting.

2. Innovator

He applies new methods and technologies to the educational process. He integrates modern methods such as STEAM, PBL and gamification into education. He constantly updates his knowledge and skills and develops new educational materials.

3. Mentor (Advisor)

Assists students in personal and professional development. Guides each student according to their abilities and interests. Uses individual approaches aimed at increasing motivation.

4. Tech-savvy

Must be familiar with modern technologies and be able to adapt them to the educational process. Uses digital platforms, AR/VR technologies and artificial intelligence tools. Successfully manages virtual and hybrid forms of education.

5. Inspirational person. Encourages students to be creative and think independently. Becomes an example in forming important values and self-development.

6. Develops critical thinking. Develops students' independent analysis and decision-making skills. Allows students to compare different opinions and draw reasonable conclusions.

7. Team leader and partner

Establishes cooperation with students and develops teamwork skills in them. Establishes cooperation with parents and representatives of society. is important as a person who forms skills, motivates and provides technological solutions. A modern pedagogue should work on himself, adapt to modern processes and aim for continuous development for the success of his students.

Advantages and problems of innovative approaches Innovative educational approaches are aimed at meeting the needs of modern society and increase the quality of the educational process. However, there are a number of problems in their implementation.

1. Adaptation of the educational process to the individual

It allows to introduce approaches suitable for the needs, abilities and learning speed of each student. It helps to acquire knowledge effectively through personalized educational technologies.

2. Development of practical skills. Through project-based learning (PBL), students gain experience in solving real problems. Teamwork, critical thinking and creativity skills are developed.

3. Access to technologies

Making the educational process interactive with the help of artificial intelligence, virtual reality (VR) and augmented reality (AR). Extensive use of distance and hybrid learning opportunities.

4. Increase motivation and participation

Through gamification (use of game elements), students' interest in the lesson increases. Games, projects and discussions increase student activity.

5. Adaptation to the modern labor market

Innovative approaches prepare students for 21st century skills (critical thinking, problem solving, creativity). It allows preparing students for future professions.

1. Infrastructural limitations

In many schools and educational institutions, the lack of technological tools, lack of Internet connection and availability of modern devices creates problems.

2. Training of teachers

Many teachers do not have sufficient skills in using innovative technologies. Teachers have limited time and resources to master new approaches.

3. Financial costs

Implementation of innovative technologies requires a lot of money. There is a need to regularly update programs and equipment.

4. Organizational and administrative difficulties

There may be bureaucratic obstacles in the implementation of innovative approaches. Difficulties in coordinating new methods with traditional educational methods.

5. Risk of inequality and discrimination

There may be a gap in educational opportunities between those who have technology and those who do not. Children from low-income families face difficulties in distance education.

6. Psychological and social problems

Excessive dependence on technology can lead to a decrease in social communication skills in students. There is a possibility that students will suffer mental and physical health damage as a result of working in front of the screen for a long time. Innovative educational approaches will bring modern education to a higher level. can bring out, but in order for them to be effectively put into practice:

Strengthening of teacher training programs,

Schools should be provided with technologies, the financial support system should be expanded by the state and the private sector. Through a systematic approach, innovative education can serve to solve multifaceted problems and ensure the effective study of students.[11] In the process of education, the student becomes the main figure. Therefore, the place and role of modern teaching methods - interactive methods, innovative technologies in the training of qualified professionals in higher educational institutions and faculties is huge. Knowledge, experience, and interactive methods of pedagogical technology and pedagogic skills ensure that students acquire knowledgeable, mature skills. Modern educational development has brought a new direction - innovative activity to the field. By the 21st century, which is considered to be the age of information - highly developed technologies, the attention to the issue of wide introduction of innovation in the educational process has been increased. In Uzbekistan, in recent years, innovation has entered the education system as one of the first compared to other fields, and we can see

how innovation is reflected in the educational process in the following. The entry of innovation into the system of pedagogical sciences was determined by the following.

a) Gender pedagogy; b) Heuristic pedagogy;

c) Compulsory pedagogy; g) Androgogical pedagogy

- We can see the introduction of active, passive and interactive methods of innovation into teaching methods. If the use of the active method serves to increase the students' activity in the course of the lesson, the passive method is explained by the one-sided understanding of the students. The interactive method is understood as active action together (teacher and student, student and student).

- We can see the introduction of innovation into the form of lessons in the example of standard, non-standard and virtual lesson forms.

- There are types of innovation in teaching types: problem-based learning, heuristic learning, graded learning, integrated learning, interactive learning, informal learning, formal learning, non-formal learning.[12]

- Multimedia, electronic boards and other tools can be used as an example of innovation in teaching tools.

- Innovation in teaching methods can be seen in the following methods.

1. Active method - encourages students to be active during the lesson, to think and reflect on a certain situation and reality.

2. Passive method - leads to the formation of a one-sided understanding of the studied subject in the course of the lesson.

3. Interactive method. The purpose of this method is based on the joint active behavior of the teacher and students during the lesson.

We can see the innovation in the form of the lesson as follows.

a) Standard lesson - the structure within the lesson does not change.

b) Non-standard lesson - the structure within the lesson changes.

v) Vertual lesson - i.e. distance learning. The concept of "new" is central to pedagogical innovation. It also arouses interest in special, conditional, local and subjective innovation in pedagogical science.[13]

Summary

In the 21st century, education must adapt to global changes in society and master modern technologies. Innovative teaching strategies serve to develop students' critical thinking, creativity and practical skills. Personalized education, project-based approaches, flipped classroom, STEAM integration and the use of digital tools can improve the effectiveness of teaching. At the same time, the success of these approaches depends on such factors as the readiness of educators, the development of technological infrastructure and financial support. liq. Innovative approaches make education not only a process of acquiring knowledge, but also a means of forming personal and social skills.

Recommendation: In the implementation of innovative educational strategies, the cooperation of the state, educational institutions and the community is important. By

adapting the education system of our country to modern requirements, it is possible to raise a highly qualified, educated and creative generation in the future.

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