

PEDAGOGICAL INNOVATIONS AND MODERN TECHNOLOGIES

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Abstract: This article explores the impact of pedagogical innovations and modern technologies on the educational process, their interaction with traditional teaching methods, and the importance of implementing modern approaches in pedagogical activities.

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In today's era of globalization, the development of the education system and its quality improvement remain one of the main, priority areas. The needs of society and the rapid development of technological progress require the education system to introduce new approaches and new technologies. From this point of view, innovative pedagogical approaches are becoming an integral part of improving the modern education system. Such developments certainly do not bypass the education system. Teaching students in the state education system based on an innovative approach helps to significantly increase the effectiveness of classes.

The use of various pedagogical technologies and modern methods in the teaching process helps students to think independently, freely, research, approach each issue creatively, conduct scientific research, and most importantly, to increase their interest in their chosen profession. Achieving such a result requires the use of innovative and information technologies in the educational process. Organizing lessons based on modern technologies not only increases students' knowledge, but also helps them become modern-day professionals.

Pedagogical innovations include:

- New teaching methods (problem-based learning, interactive technologies).
- Information and communication technologies (computerized education).
- Modular learning systems (learning materials in parts).

Problem-based learning : The teacher creates a problem situation and encourages students to think about the problem and respond based on their worldview. Solving any problem situation by students independently or in a team develops logical thinking and problem-solving skills with the right approach

to the situation. Problem-based learning is a teaching method that encourages students to think independently, search for solutions, and discover their own knowledge, instead of giving them ready-made knowledge. During the lesson, it helps students discover new ideas about the topic and at the same time develop logical thinking skills. In this type of teaching, the teacher sets a problem related to a topic. For example, in a math lesson, there may be tasks such as analyzing the causes of a historical event. Students think, ask questions, search, and draw conclusions to solve the problem. The main stages of problem-based learning are: posing a problem, thinking, researching, solving the problem, and drawing conclusions.

Computerized education : The use of computers and information and communication technologies provides an individual approach to students, develops their abilities and makes education more effective. The use of modern technologies in the educational process is used to increase the effectiveness of education, create comfortable conditions for students and teachers, and make educational materials more understandable. There are a number of advantages of such education, some of which we will list. By adding videos, animations, and interactive exercises to textbooks, students better understand the material. In the lesson process, not only textbook information is included, but also video lessons on each topic, interesting online questions and answers increase students' interest in the lesson. The programs provide exercises and tests that match the level of knowledge of each student. You can study anywhere via a computer and the Internet. This is especially useful for those who live in remote areas or who, for various reasons, cannot attend traditional school.

Modular teaching: The educational material is learned independently by students by dividing it into logical parts. This method adapts to the speed and ability of students to acquire knowledge. Modular teaching is a method that divides the educational process into separate parts and allows each part to be studied independently. This system allows the student to choose their reading speed based on their level of knowledge and interests.

The tomorrow and future of every state depend on the intellectual potential, culture, creativity, and attention to education of its citizens. After all, just as a new society cannot be built on the basis of old education and upbringing, the future of our country is undoubtedly directly dependent on the issue of personnel training. As Sh. Mirziyoyev noted, "Today we are moving towards an innovative development path aimed at radically renewing all spheres of state and social life. This is not without reason, of course. Because in the current era of rapid development, who wins? The state that relies on new thinking, new ideas, and innovation wins. The widespread introduction of innovation in education, including modern, interactive and creative teaching methods, is developing very rapidly today. Every year, the governing bodies of the education system pay special attention to achieving high efficiency in educational institutions and training personnel that meet today's requirements. The practical actions being taken are aimed at creating a certain level of students' need for success and advancement, as well as developing their professional skills. From a pedagogical point of view, the innovative processes implemented in the modern education system are primarily associated with the active use of digital technologies in all spheres of human activity, and, first of all, is aimed at improving the quality and efficiency of education. The essence and content of innovative activity is that any innovation in the field of education for students is made possible by the implementation of the teacher. Also, modern pedagogical technologies increase the effectiveness of the educational process, form the free thinking process of teachers, increase their enthusiasm and pleasure in learning. Pedagogical innovation is a factor that enriches and develops the theory and practice of education and upbringing by introducing previously unknown changes in the educational process.

As is known, the development of education in the modern era has brought a new direction - innovative activity . The term "innovative pedagogy" and the research associated with it appeared in the 60s of the 20th century in Western Europe and the USA. While the initial studies covered the practice of innovative activity and the widespread dissemination of advanced pedagogical experiences, later the issues of managing innovative developments, organizing changes in education, and the conditions necessary for the "life and activity" of innovation were analyzed. The term "innovation" is derived from the Latin word "novatio" , which means "renewal (or" change)", and the suffix "in" is translated from Latin as "in the direction" , if we translate it as a whole "Innovatio" - it is interpreted as "in the direction of change". The concept of "innovation" began its new life in the scientific works of the Austrian economist J. Schumpeter at the beginning of the 20th century, as a result of the analysis of "innovative combinations" and changes in the development of economic systems. Schumpeter is one of the first scientists to introduce this term into scientific use in economics in the 1900s . Innovation is a change in the factors of production (new combinations) motivated by the spirit of entrepreneurship

Innovative education is a process that prepares future specialists for work in the field, which consists in improving education and taking an effective new approach based on previously acquired knowledge. It achieves a new quality indicator in education and upbringing, achieves high efficiency, is focused on creativity, and ensures the advancement of educational technologies to a new qualitative level, as well as the organization of modern approaches to education and upbringing.

Pedagogical innovation is the use of new approaches to make teaching methods more effective. Modern technologies greatly assist this process, making education convenient, interesting , and understandable.

For example:

- Interactive teaching methods – Instead of using only textbooks, lessons use a variety of visual and hands-on tools. For example, topics are explained through charts, diagrams, infographics, or electronic whiteboards.
- Project-based learning – Students work in teams , solve problems, and put their ideas into practice.
- Game technologies – Students use game elements in the learning process. For example, various questions and answers, competitions, and interesting tasks make education interesting.
- Independent learning systems – Students can learn in a way that is convenient for them. For example, through distance learning systems, they can access course materials at any time.

Pedagogical innovations and modern technologies serve to improve the quality of education. Today, the educational process is organized not only based on books, but also using various interactive, virtual and online tools. This creates convenience for students and teachers and makes education more effective.

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