



## Using Innovative Pedagogical Technologies in Education and Improving the Quality of Education

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**Abstract:** This article describes the essence of the use of innovative pedagogical technologies in education and its role and importance in improving the quality of education. Also, this article discusses the effectiveness of using innovative pedagogical technologies in the educational process and offers suggestions for a new approach to the educational process in higher education institutions.

**Key words:** innovation, pedagogical technology, quality of education, IT specialists, innovative approach.

The role of the education system in accelerating the socio-economic development of our country and ensuring its economic security is incomparable. Among the global trends such as the internationalization of education, the international mobility of students, the rapid change of the educational program, the issue of ensuring the quality of education is gaining special importance. Modern socio-economic conditions and the high demands placed on the spiritual-ethical, intellectual and professional potential of future specialists put the task of training quality personnel capable of meeting international requirements before educational institutions. In order to fulfill these tasks, it is necessary to use innovative pedagogical technologies in education. However, modern trends in the educational system, especially the innovative pedagogical technologies used in the educational system of developed foreign countries, are relatively slow to be adopted.

Pedagogical technology is a system of modern organization of the educational process, which ensures the necessary quality of education and meets the requirements of accelerated scientific and technical development, aimed at the improvement of educational forms, teaching processes with techniques and It is a consistent method of creation and implementation in human factors, through their joint actions. The use of innovative pedagogical technologies in the educational process is the demand of the times.

A systematic method of creation, application and determination of all processes of teaching and knowledge acquisition, with the task of optimizing educational forms, taking into account pedagogical technology-technical resources, people and their interaction.

In the educational process, teaching using new innovative techniques and technologies, conducting training using laboratory rooms equipped with the latest techniques, providing information about the latest innovations in the specialty, for example, in the field of chemistry. , giving examples from the world experience motivates to educate students in the spirit of innovation.

In our opinion, students' hidden ability to create innovation will be awakened in the educational process

by first creating interest and motivation, and then creating a competitive environment. The goal would be achieved faster if students were given examples of people who achieved success in creating science and innovation, and if possible, invited one of them to the class as a role model, or arranged to bring students to the innovation center on excursions.

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We believe that if we organize an excursion for students to the innovation fair and IT parks in the region, we will increase the achievements in connecting the theoretical knowledge given in education with practice.

In accordance with their specialization, we have already started sending students to the production enterprises and factories of our country for internships in our institutes. But our suggestion is that the scientific research institutions of the Academy of Sciences of the Republic of Uzbekistan invited a representative to the institute as an honored guest, and the honor of personally hearing his speech at the seminar and the scope of the impressions received from it would have encouraged talented students [6].

Innovative education (see "innovation" - creation of new ideas, norms, rules in the learner, advanced ideas, norms, rules created by other people qualities related to natural acceptance, education that creates the possibility of formation of skills [4].

Technologies used in the process of innovative education are called innovative educational technologies or educational innovations.

While organizing a lesson based on innovative technologies, the teacher can use various technical tools (computer, projector, electronic board, etc.) and conduct lessons based on interactive methods. The more innovations in the teacher's work, the more the content will increase. It should also be recognized that ideas about innovative technologies and interactive methods in education do not have a stable and perfect form. Each teacher can introduce innovations in education individually. Having learned new information about the essence of his subject, topics, scientific achievements and innovations created in this field, using them in the teaching process, giving examples, creating a new method in education, and based on this class can be held. Innovative technologies arise from the fact that the teacher is not satisfied with his work, he tries to introduce innovations to improve it.

"Activity renewal is carried out in 3 stages, i.e. preparation, planning and implementation stages," said the famous pedagogue A. Nikolskaya [3].

The main goal of innovative technologies is to achieve cooperation between the teacher and the student, to make students interested in science, to change the attitude towards education, to acquire the ability to apply the learned knowledge in social conditions, information communication technologies and didactic materials can be combined with the subject.

Nowadays, the interest and attention to the use of interactive methods, innovative technologies, pedagogical and information technologies in the educational process is increasing day by day, one of the reasons for this is that until now, traditional education If students are taught to acquire only ready-made knowledge in lim, modern technologies teach them to search for the acquired knowledge by themselves, to study and analyze independently, and even to draw their own conclusions. In this process, the teacher creates conditions for the development, formation, learning and upbringing of the individual, and at the same time performs the functions of management and guidance. In the process of education, the student becomes the main figure. Therefore, modern teaching methods, interactive methods, and innovative technologies play a significant role in training qualified professionals in higher educational institutions and faculties. Knowledge, experience, and interactive methods of pedagogical technology and pedagogic skills ensure that pupils-students have an educated, mature qualification.

Innovative pedagogical technologies are very important in the educational process for training modern specialists who will be in demand in the labor market in the future.

In order to train modern personnel, the pedagogue himself needs to be aware of the latest scientific achievements, innovations in the field he is teaching, and to conduct classes based on the latest pedagogical technologies, using modern ICT tools.

In the concept of development of higher education until 2030, it is aimed to include higher education institutions of our country in the ranks of international 1000 educational institutions. But the study of the international experience of innovative pedagogical technologies and their application is being implemented relatively slowly.

To clarify our point, if we give an example of different types of training courses for applicants, the goal of a training course of a pedagogue is not to get into the ranks of the best, but to achieve the intended goal of students who are the result of their work. For example, the students of the IELTS courses in English will get this certificate with high scores, and the entrants in the subjects will enter the higher education institution of their choice with high results - this is the primary goal of the pedagogue. and the achievement of this goal alone makes it one of the best courses. All these achievements depend not only on the strong knowledge of that pedagogue, but also on the pedagogical technology of delivering this knowledge.

In higher education institutions, we believe that the goal should be connected with the career achievements of specialists trained by this institution and the fact that they are mature staff in high demand. Because the quality of any activity is reflected in its result. The role of teaching through innovative pedagogical technologies in the quality implementation of the educational process is incomparable.

It is necessary to provide such high-quality, practice-related education in the preparation of a specialist in a specific direction in HEIs, so that graduates do not need to attend additional courses in the process of entering a job. For example, students studying in the field of accounting should be taught how to work in accounting programs such as 1C and 1UZ during the student period, so that they do not feel the need to pay for courses after receiving a diploma. Or, who studies in English, is able to get the IELTS certificate based on the knowledge given at the higher education institution, without attending courses.

IT specialists are the most in-demand profession now and in the future. These directions should be opened more in higher education institutions and pedagogues should have deep knowledge and high pedagogical skills and teach based on innovative technologies in order to train mature personnel in this field. We believe that higher education institutions equipped with modern equipment and technology and teaching on the basis of innovative pedagogical technologies are among the best institutions for achieving success in such fields.

When working on the basis of innovative pedagogical technologies, the teacher must have an understanding of innovative activities. In essence, innovative activity consists of scientific research, creation of developments, experimental and test work, creation of a new improved product based on the use of scientific and technical achievements. The innovative activity of a teacher is determined by:

- willingness to use innovation;
- acceptance of pedagogical innovations;
- level of innovation;
- development of communication skills;
- creativity.

Innovative activity is an activity aimed at solving complex problems that arise as a result of the incompatibility of new social requirements with traditional norms or the denial of existing ideas by newly formed ideas.

Innovative activity requires the acquisition of knowledge, skills, competence, supplementing practical activities with theoretical knowledge, development of knowledge, design, communicative speech and organizational skills on the basis of directing the spiritual, mental and physical strength of the pedagogue to a certain goal [4 ].

At the 1st stage, ready-made methodological descriptions (existing innovation, for example, used in foreign experience, but new for us) are used.

In the 2nd stage, the pedagogue introduces his new ideas and methods into the existing system. In the 3rd stage of deciding on the innovative approach of pedagogues, the idea created in the second stage systematizes the content, form and methods of implementing the innovative method in the institution where it operates.

At the 4th stage, the pedagogue creates his own concept (set of ideas) or methodology related to teaching and education.

At these stages, if the pedagogue implements innovative approaches and introduces innovations in pedagogical technologies, the quality of education will definitely increase.

According to experts, the innovative e-textbook mimics the ability of the human mind to remember large amounts of information and search through this information through the association of communication and thought processes. In other words, an innovative e-textbook is a complex educational material system that incorporates a lot of statistical and dynamic information and has a generalized network structure: video, executable program, and animation [5].

Decree of the President of the Republic of Uzbekistan No. PF-5264 of November 29, 2017 "On the establishment of the Ministry of Innovative Development of the Republic of Uzbekistan" and [1] Uzbekistan No. PQ-3416 of November 30, 2017 In accordance with the Decision of the President of the Republic "On the establishment of the Ministry of Innovative Development of the Republic of Uzbekistan", the ministry of the same name was established, and among its tasks is the introduction of innovations into the social development, including the education and health care system. also included [2].

In conclusion, if the use of innovative pedagogical technologies in education increases the quality of education, innovative technologies are a driving force for educational development. The future of every society is determined by the level of development of the education system, which is an integral part of it and a vital necessity. Today, reforming and improving the continuous education system of our country, which is on the path of independent development, raising it to a new level of quality, introducing advanced pedagogical and information technologies to it, and increasing the effectiveness of education have been raised to the level of state policy.

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