Use of Innovative Pedagogical Technologies in a Digital Educational Environment

F. S. Makhamatova

Jizzakh State Pedagogical University named after A. Qadiri
Department of Pedagogical Education Theory, Teacher

Abstract: This article highlights the essence of the effective use of innovative pedagogical technologies in the digital educational environment and its importance in improving the quality of education. The article discusses the effectiveness of using innovative pedagogical technologies in the educational process.

Keywords: digital educational environment, innovation, pedagogical technology, quality of education, innovative approach, innovative educational environment.

The introduction of innovative technologies in the digital educational environment is interconnected with the improvement of educational content and methods in connection with the requirements of modern life. The priority direction of development of a modern higher education institution is the humanitarian direction of education, the main focus is on the student and his personality. Therefore, the main goal of the modern pedagogical team is to choose a priority direction that optimally corresponds to the goal of personal development of the methods and forms of organizing the educational activities of students.

Among global trends such as the internationalization of education, international mobility of students, rapid changes in the educational program, increasing the quality of education in the digital educational environment, the issue of ensuring the quality of education is a separate issue. is gaining 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 who can meet 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 education system, especially the innovative pedagogical technologies used in the education system of developed foreign countries, are being relatively slowly assimilated.

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 process 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. It is 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 course of education, conducting classes using new innovative techniques and technologies, then holding training sessions using educational rooms equipped with techniques, providing information about the latest innovations in the field of specialization, giving examples from experience motivates to educate students in the spirit of innovation.

Each pedagogical technology is based on a certain scientific concept. The scientific concept of pedagogical technology includes philosophical, psychological, socio-pedagogical, didactic justifications for achieving educational goals.

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 if it was arranged to bring students to the innovation center on excursions.

The use of innovative types of education in the digital educational environment leads to high efficiency. The 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. 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.

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. Knowledge, experience, and interactive methods of pedagogical technology and pedagogic skills ensure that pupils-students acquire knowledgeable, mature skills. 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, it is necessary for the pedagogue himself to be aware of the latest scientific achievements, the innovations of the field he is teaching, and to conduct classes based on the latest pedagogical technologies, using modern ICT tools. Regarding the development of the digital educational environment, it is aimed to include the higher educational institutions of our country in the ranks of the international 1000 educational institutions. However, the study of the international experience of innovative pedagogical technologies and their implementation is being carried out relatively slowly.

The role of teaching through innovative pedagogical technologies in the quality implementation of the educational process is incomparable. In the training of a specialist in a specific direction in higher education institutions, it is necessary to provide such high-quality, practice-related education that graduates do not need to attend additional courses in the process of entering a job.

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 techniques and technologies and teaching on the basis of innovative pedagogical technologies are definitely 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. According to its essence, innovative activity consists of scientific research, creating developments, conducting experimental work, creating a new improved product based on the use of scientific and technical achievements. The innovative activity of the pedagogue is determined by the following: - readiness to use the 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. It requires acquiring knowledge, skills, competences, supplementing practical activities with theoretical knowledge, developing knowledge, design, communicative speech and organizational skills. In general, great attention is paid to the field of education and innovations in our country.

At the planning stage of organizing the educational process on the basis of pedagogical technology, higher qualifications are required from leading pedagogues when developing methodological materials based on the rules and principles of pedagogical technology. A systematic approach to education management is a process of forming the necessary knowledge, skills and competencies for students based on the available capabilities of the manager, that is, the teacher. The process of management in education can be implemented in different ways.

Currently, various technologies are introduced to manage the educational process. By creating a dynamic model of education, management is showing its effectiveness. The intended technology is based on a systematic approach and is implemented in the following sequence: preparation of information on the studied subject; bring the prepared information into a certain sequence, taking into account the teaching method and purpose; to analyze the content of the educational material from the point of view of pedagogical methods that are intended to be used; determining the purpose of the appropriate stage of the use of pedagogical technologies; development of the process sequence of using pedagogical technologies; preparation of methodological recommendations regarding the use of technologies; application of technologies and separation of the achieved results into knowledge, skills and competence systems; determination of quality indicators based on the obtained results; assessment of the level of achievement of the intended goal; drawing appropriate conclusions about the educational management process is an important factor in the educational process today.

In conclusion, if the use of innovative pedagogical technologies in education in the digital educational environment 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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