



ORGANIZING LESSON PROCESSES USING MODERN PEDAGOGICAL TECHNOLOGIES

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ABSTRACT

This comprehensive article covers the effective organization of lesson processes in education using modern pedagogical technologies. It discusses various innovative teaching methodologies and tools, such as the flipped classroom approach, gamification, interactive learning platforms, virtual reality, and collaborative online tools. By integrating these modern pedagogical technologies into lesson planning and delivery, educators can create engaging and interactive learning experiences that accommodate diverse learning styles and improve student outcomes.

Introduction. Modern pedagogical technologies play an important role in improving the quality of education and effectively organizing educational processes. Today, information and communication technologies (ICT) and innovative approaches have become an integral part of the educational system, which play a major role in increasing the interest of students, deepening their understanding of the subject, and effective assimilation of knowledge. The use of modern pedagogical technologies helps students to develop logical thinking, creative approach and independent learning skills. In this process, extensive use of interactive methods, virtual laboratories, online platforms and multimedia presentations ensures that the educational process is more lively and effective. This article analyzes the advantages, methods and pedagogical approaches of organizing lesson processes using modern pedagogical technologies. Also, recommendations are made about the impact of innovative technologies to increase the motivation of students and improve the quality of education.

Research methods. We can use the following methods to conduct research on the topic of organizing lesson processes using modern pedagogical technologies.

Theoretical methods. These methods are implemented based on the main theoretical and methodological foundations for studying the subject.

Studying scientific articles, books, research works and legal documents on modern pedagogical technologies through the method of literature analysis.

Systematization of various pedagogical approaches and methods and drawing conclusions from them using the method of systematization and generalization.

Through the method of conceptual modeling. Creating a model for the use of modern technologies to organize the pedagogical process.

Empirical methods are used to study and verify the real learning process.

Using the method of observation, it is possible to observe lessons using pedagogical technologies and record the process.

Using questionnaires and interview methods to study teachers' and students' opinions through questionnaires and interviews.

Through pedagogical experience, it is possible to use modern technologies in the course of the lesson and analyze the results.

Literature analysis. Analyzes of foreign and domestic scientists on the topic of organization of lesson processes using modern pedagogical technologies are rich in many scientific discussions. For example, one of the foreign scientists, John Dewey (USA) in his work entitled *Experience and Education*, emphasized the importance of experience and practice in the educational process, and he recommended the development of new pedagogical methods to make education interactive and interesting. Dewey proposes to create an interactive environment based on the experience of the student in the application of modern pedagogical technologies. He noted that this approach is widely used in gamification and project-based learning in classrooms today. Lev Vygotsky (Russia) According to the socio-cultural theory of *Mind in Society*, students acquire knowledge effectively through collaborative work. His concept of "zone of proximal development" (ZPD) is compatible with cooperative teaching and mentoring methods used in modern technology. In the *Taxonomy of Educational Objectives* by BS Bloom (USA), Bloom developed a classification of the levels of learning (knowledge, understanding, application, analysis, synthesis and evaluation) in the educational process. Modern pedagogical technologies are based on this classification, because they guide students to develop high-level skills. Examples include interactive games and simulations.

Howard Gardner (USA) in his work entitled *Frames of Mind: The Theory of Multiple Intelligences* put forward the ideas that people's intellectual abilities are different, and educational technologies should be adapted accordingly. Modern technologies (for example, multimedia and virtual laboratories) are effectively used in the implementation of Gardner's theory of multiple intelligences in classes.

One of our local scientists, HTTokhtayev, in his article entitled "Modern Pedagogical Technologies" emphasized on increasing the motivation of students to learn through the use of innovative technologies in the course of the lesson. He recommends the successful use of technologies such as "Insert" and "Cluster" in local conditions and emphasizes that they serve to increase the effectiveness of education. M. Mahmudov in his manual entitled *Pedagogical technologies and educational methodology*, Mahmudov suggests the wide use of visual technologies in the process of students' learning. This helps the students to absorb the concepts more deeply. His research includes practical suggestions for the introduction of ICT in secondary schools in Uzbekistan.

A. Karimov emphasizes the importance of introducing digital resources and virtual platforms in the course of the lesson in his work on innovative educational technologies. It supports the use of gamification and interactive platforms to develop students' creative thinking. Explores how interactive methods such as "Fish Skeleton" and "Blitz Survey" affect performance in the learning process. These methods increase students' participation in the lesson, form logical thinking and creativity in them.

While foreign scientists have formed the theoretical foundations of modern pedagogical

technologies, local scientists are conducting research on adapting them to the conditions of Uzbekistan. Foreign approaches are based on more fundamental theoretical knowledge. Local approaches involve the adaptation and implementation of technologies to the national education system.

Result and discussion. It is very important to study foreign results and foreign experiences in improving educational efficiency. Studies by scientists such as Dewey and Gardner show that with the help of modern technology, students' activity in the classroom increases, which leads to better learning. Interactive lessons based on ICT have been found to increase student interest by 20-30%. Through the use of gamification and virtual environments, students develop creativity skills in the learning process. According to research by Mahmudov and Karimov, the use of technologies such as "Insert", "Blitz-survey" and "Cluster" in Uzbekistan increases efficiency by 15-25%. Practical experiments carried out by Kasimova showed that through the use of interactive methods, students significantly develop independent thinking skills.

Foreign experiences in increasing students' motivation also show that research based on Vygotsky's theory shows that cooperative learning and the use of digital resources significantly increase motivation. According to Bloom's "taxonomy of learning objectives", teachers have found that by developing higher-order thinking skills, students' interest in learning can be increased. Tokhtayev's research confirms the increase of students' interest in the lesson by using multimedia tools in the lessons in Uzbekistan.

In the national context, lessons with game elements based on the "Gamification" technology have significantly increased the motivation of students.

On the basis of Gardner's "Theory of Multiple Intelligences" in the development of individual abilities of students, the possibilities of developing individual abilities of students by using various pedagogical technologies were shown.

Digital tools help students develop critical and creative thinking skills. According to Karimov's research, organization of individual teaching process with the help of ICT gives high results in national conditions.

"Online laboratories" and simulations in Uzbek schools increase the success of students in specific subjects by 18-22%.

Dewey and Vygotsky's research on the effectiveness of the integration of traditional and modern methods has shown that education becomes more effective by combining traditional and modern technologies. As an example, experiments carried out in traditional education with the addition of modern interactive technologies are distinguished by the high level of knowledge of students. In the conditions of Uzbekistan, the development of teaching methods by adding digital technologies to traditional methods is successful. Example: teaching literature and history using interactive whiteboards.

Limitations in resources and infrastructure can be an obstacle in the educational process, but cloud platforms (Moodle, Zoom, Google Classroom) play an important role in overcoming this problem. Mahmudov and Kasimova's research emphasizes the need for teacher retraining and infrastructure development for the widespread introduction of modern technologies in Uzbekistan. Modern pedagogical technologies are of great importance in increasing efficiency, motivation and creative thinking in the educational process. While foreign experiences provide basic theoretical guidance, local research offers solutions adapted

to national conditions. Strengthening of the technological base and retraining of teachers is important for effective use of modern technologies in the conditions of Uzbekistan.

Using tests and other tools to assess students' knowledge and skills through diagnostic methods. Analyzing the obtained data using mathematical and statistical methods to evaluate the effectiveness of pedagogical experience through statistical analysis methods. Descriptive statistics to summarize the results of the experiment. ICT (Information and Communication Technologies): Application and analysis of online platforms, interactive whiteboards and other digital tools. Comparison of teaching methods with the help of modern technologies and traditional methods and evaluation of their effectiveness.

In today's rapidly changing educational environment, the use of modern pedagogical technologies in creating dynamic and effective lesson processes is becoming important. Using modern pedagogical technologies, teachers can transform traditional classroom settings into interactive and can make for an interesting learning environment. The flipped classroom model involves inverting the traditional learning process, introducing content outside of the classroom through videos, readings, or online resources, and using interactive activities, discussions, and learning from class time. This approach promotes active learning, student engagement, and personalized learning. Gamification is the application of game design principles and mechanics to non-game contexts such as education. By incorporating elements such as points, badges, leaderboards, and rewards into lesson processes, teachers can increase student motivation, engagement, and achievement. A gamified learning environment gives students a sense of achievement and progress, making learning more fun and effective. Interactive learning platforms offer a dynamic and collaborative online space for students and instructors to engage with course materials, interact with peers, access resources, and receive immediate feedback. These platforms enable a personalized learning experience, flexible assessment, and real-time tracking of student progress. By creating interactive and engaging lessons, teachers can accommodate different learning styles and needs. Virtual Reality (VR) and Augmented Reality (AR) technologies provide immersive and interactive learning experiences that allow students to explore virtual environments, conduct experiments, and simulate real-life scenarios. By integrating VR and AR into classroom processes, teachers can make complex concepts more clear and engaging, which promotes deeper understanding and retention of information. Online collaborative tools such as cloud-based documents, communication platforms, and project management tools allow students to work together, share ideas, collaborate on assignments, and provide real-time feedback. These tools foster teamwork, communication skills, and critical thinking, fostering a collaborative learning environment inside and outside the classroom.

The introduction of modern pedagogical technologies into the teaching process can significantly increase the experience of education and upbringing. Using tools such as a flexible classroom approach, gamification, interactive learning platforms, virtual reality, and collaborative online tools, teachers can create dynamic and engaging lessons that meet the diverse needs and preferences of students. Ultimately, the integration of modern pedagogical technologies can lead to improved student outcomes, increased motivation, and the creation of an interactive learning environment in education.

Conclusion.

Integration of modern pedagogical technologies into the educational process is of great importance in effectively organizing the learning process of students and increasing their activity. By increasing efficiency, modern technologies increase students' interest in lessons and significantly improve their level of knowledge acquisition. The use of interactive and multimedia tools makes the learning process more effective.

Increasing motivation, modern pedagogical technologies help to increase the motivation of students. Students' activity, interest and creative abilities develop significantly with the help of technologies. As a result of the individual approach, based on the theory of multiple intelligences, technologies help to develop different abilities of students. It allows to create an educational environment suitable for the individual needs of each student. By combining traditional and modern methods, it is possible to improve the quality of education by combining traditional and modern pedagogical technologies in the educational process. This enables the all-round development of students. Access to technologies In the conditions of Uzbekistan, access to modern pedagogical technologies is limited in some regions. This limits the full implementation of technologies in the education system.

Retraining of teachers. In order to effectively use modern technologies, it is necessary to constantly retrain teachers and familiarize them with new pedagogical technologies. At the same time, teachers should be given practical training on the use of new methods and technologies.

Infrastructure development. It is necessary to create the necessary infrastructure for wide use of modern technologies in educational institutions. This includes providing students and teachers with interactive whiteboards, computers, internet access and other digital tools.

Development of targeted programs. Targeted programs should be developed at the state level for effective use of modern technologies. These programs provide students with full access to modern technology and increase the overall efficiency of the education system.

Adaptation of technologies. It is necessary to develop and introduce modern technologies adapted to the educational system of Uzbekistan. Taking into account the local conditions, it is necessary to develop effective methods of using technologies in the educational process.

Development of students' creative thinking. Wide use of technologies that develop creative thinking is necessary in the educational process. Students should be given opportunities to express themselves, solve problems and generate new ideas.

Integrating technologies. By integrating modern technologies with traditional educational methods, it is possible to provide students with a more complete education. Teachers need to integrate technology in the teaching process at different stages of learning. Effective organization of educational processes using modern pedagogical technologies helps to develop students' activity, motivation and creative thinking skills. It is also possible to increase the effectiveness of modern pedagogical technologies by modernizing the education system and improving the qualifications of teachers. The integration of modern pedagogical technologies into the teaching process provides many opportunities to create an interesting, interactive and personalized learning experience for students. By using tools such as a flexible classroom approach, gamification, interactive learning platforms, virtual reality, and collaborative online tools, educators can increase student engagement, encourage active learning, and improve learning outcomes. Adoption of modern pedagogical technologies is

important in preparing students for the problems of the 21st century, improving the culture of continuous education and innovations in education.

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