

THE USE OF INNOVATIVE METHODS AND TECHNOLOGIES IN DEVELOPING STUDENTS' KNOWLEDGE

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Abstract

This article comprehensively discusses the theoretical and practical aspects of using innovative methods and technologies in developing students' knowledge. It analyzes the issues of improving educational effectiveness through innovative pedagogical technologies, as well as developing students' independent thinking, creativity, and problem-solving skills in problematic situations.

Keywords: innovative education, pedagogical technologies, interactive methods, ICT, problem-based learning, project method, modern teaching.

The effectiveness of developing students' knowledge in the educational process is primarily determined by the content of the methods and technologies used, as well as by their compatibility with students' age-related and individual characteristics. At present, along with traditional teaching methods, the use of innovative methods and technologies is considered an important factor in improving the quality of education.

Innovative methods refer to modern teaching approaches aimed at increasing students' engagement, developing their independent thinking, and connecting knowledge with practice. These methods help shape the learner not as a passive listener, but as an active participant in the educational process.

One of the innovative methods widely used in developing students' knowledge is problem-based learning. In problem-based learning, students are not provided with ready-made knowledge; instead, problematic situations are created. Students actively participate in the process of independently analyzing these problems, finding solutions, and drawing conclusions. This method develops students' critical thinking and problem-solving competencies.

The project method is also considered one of the effective approaches in innovative education. This method provides an opportunity to develop students' knowledge on an interdisciplinary basis. In the process of project work, students deepen their knowledge by studying a particular problem, collecting information, analyzing it, and presenting the results. When combined with an integrative approach, the project method helps form a coherent and holistic system of knowledge in students.

Interactive teaching methods are also included among innovative methods. Techniques such as "Brainstorming," "KWL," "Cluster," "INSERT," and "Case

Study” increase students’ activity during lessons and teach them to think freely and justify their viewpoints. Through these methods, students acquire knowledge in the process of communication with one another, which contributes to the consolidation of learning.

In the modern educational process, the use of information and communication technologies (ICT) is of particular importance. Electronic textbooks, multimedia presentations, virtual laboratories, and online platforms make the process of knowledge acquisition more engaging and effective for students. Lessons organized on the basis of ICT contribute to the development of students’ independent learning skills.

The integrative approach plays an important role in the application of innovative technologies. Lessons organized on the basis of interdisciplinary connections allow students to acquire knowledge in a systematic and comprehensive manner. For example, teaching natural sciences, mathematics, and technology in an integrated way helps students develop the ability to connect theoretical knowledge with practical activities.

The professional competence of the teacher is of great importance for the effective use of innovative methods and technologies in developing students’ knowledge. A teacher must know modern methods, be able to select them appropriately for the lesson process, and apply them while taking into account students’ individual abilities. At the same time, the teacher should be ready for innovative activity and continuously work on self-improvement.

In conclusion, innovative methods and technologies are important pedagogical tools in developing students’ knowledge. When combined with an integrative approach, they enhance the effectiveness of the educational process. The purposeful use of these methods contributes to raising students’ level of knowledge and helps shape them as independent and creative thinkers..

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