

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

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Abstract: This article provides a comprehensive discussion of the theoretical and practical aspects of using innovative methods and technologies in developing students' knowledge. It analyzes the role of innovative pedagogical technologies in improving the effectiveness of education, as well as in developing students' independent thinking, creativity, and problem-solving skills. The article also highlights the importance of interactive methods, problem-based learning, project-based learning, information and communication technologies, and interdisciplinary integration in the modern educational process.

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 applied, as well as by their suitability for students' age-related and individual characteristics. Today, along with traditional teaching methods, the use of innovative methods and technologies is considered one of the key factors in improving the quality of education.

Innovative methods refer to modern teaching approaches aimed at increasing students' activity, developing their independent thinking, and connecting knowledge with practical application. These methods help transform students from passive listeners into active participants in the learning process.

One of the most widely used innovative methods in developing students' knowledge is problem-based learning. In this approach, students are not provided with ready-made knowledge; instead, problematic situations are created for them. 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.

Another effective method of innovative education is the project method. This method makes it possible to develop students' knowledge on an interdisciplinary basis. During project work, students deepen their knowledge by studying a specific problem, collecting information, analyzing it, and presenting the results. When combined with an integrative approach, the project method helps form a coherent and systematic body of knowledge among students.

Interactive teaching methods are also among the important innovative approaches. Methods such as "Brainstorming," "KWL," "Cluster," "INSERT," and "Case Study" increase students' activity during lessons and teach them to think freely and justify their opinions. Through these methods, students acquire knowledge through communication and cooperation with one another, which contributes to the durability and effectiveness 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 acquiring knowledge more engaging and effective for students. Lessons organized on the basis of ICT help develop students' independent learning skills.



The integrative approach also 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 way. For example, by teaching natural sciences, mathematics, and technology in an integrated manner, students develop the ability to connect theoretical knowledge with practical activities.

In order to use innovative methods and technologies effectively in developing students' knowledge, the professional competence of the teacher is of great importance. A teacher must be familiar with 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, teachers should be ready for innovative activity and continuously work on improving their professional skills.

In conclusion, innovative methods and technologies serve as important pedagogical tools in developing students' knowledge. When combined with an integrative approach, they increase the effectiveness of the educational process. The purposeful use of these methods contributes to improving students' level of knowledge and helps shape them as independent, creative, and critically thinking individuals.

References

1. Azizkhojayeve, N. N. (2018). *Pedagogical technologies and pedagogical mastery*. Tashkent.
2. Muslimov, N. A. (2020). *Innovative educational technologies*. Tashkent.
3. Ziyonet. (n.d.). Retrieved from www.ziyonet.uz

