NEW PEDAGOGICAL TECHNOLOGY AND THEIR EFFECTIVENESS

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Abstract. This article examines advancements in education and new pedagogical technology. The usefulness of pedagogical tools in the classroom and their effects on students are investigated. These technologies have become an essential component of contemporary education. The teaching process is made more efficient by the use of digital platforms and resources, as well as new technologies.

Keywords: educational technology, special education, efficacy of pedagogy, contemporary approach, interactive techniques, education, and rearing.

Abstrakt. Ushbu maqolada ta'lim jarayonida yangi pedagogik texnologiyalar va innovatsiyalar tahlil qilinadi. Pedagogik texnologiyalar zamonaviy ta'limning ajralmas qismiga aylangan bo'lib, ularning ta'lim tizimidagi samaradorligi hamda o'quvchilarga ta'siri o'rganiladi. Yangi texnologiyalardan foydalanish, shuningdek, raqamli platformalar va resurslardan foydalanish ta'lim jarayonini yanada samarali qilishga yordam beradi.

Kalit so'zlar: pedagogik texnologiyalar, maxsus ta'lim, pedagogik samaradorlik, zamonaviy metod, interaktiv usullar, ta'lim va tarbiya.

Аннотация. Данная статья анализирует новые педагогические технологии и инновации в обучении. Педагогические технологии стали неотъемлемой частью современного образовательного процесса, и в статье рассматривается их эффективность в системе обучения, а также их влияние на учеников. Применение новых технологий, а также использование цифровых платформ и ресурсов способствует повышению эффективности учебного процесса.

Ключевые слова: педагогические технологии, специальное образование, педагогическая эффективность, современные методы, интерактивные методы, обучение и воспитание.

Introduction

In today's fast changing world, the educational system is undergoing substantial alterations, making the use of current teaching methods more important than ever. While traditional teaching approaches are still effective, new pedagogical technology provide unique ways to improve the learning process. In the twenty-first century, the field of education has been expanded with new approaches that bring about qualitative changes in teaching and learning. These technologies help to make the educational process more effective, interesting, and student-centered.Modern educational technologies are intended to help pupils develop their specific capacities and encourage independent thinking. These tactics aim to boost student engagement, encourage active participation, and improve overall learning results. For example, interactive teaching methods enable students to participate actively in classroom activities, which improves understanding and critical thinking skills. Furthermore, emerging tools allow educators to design personalized learning experiences that are suited to each student's specific needs.

Over time, the content, goals, and objectives of education have expanded, leading to the continuous improvement of its forms and methods. As a result, education has transformed into a structured system, now referred to as pedagogical technology. This concept emerged from the need to enhance educational practices and has become an integral part of pedagogy and psychology. Unlike industrial technologies, where raw materials undergo processing, pedagogical technology focuses on shaping students' intellectual, psychological, and moral qualities through systematic and goal-oriented teaching strategies. The term was first introduced in the mid-20th century in the U.S., initially known as "educational technology," emphasizing the use of technical tools in teaching. During the 1950s-60s, it evolved to include programmed learning, and by the 1970s, "pedagogical technology" became widely accepted, referring to pre-planned and goal-oriented educational processes. In 1979, the Association for Educational Communications and Technology (AECT) in the U.S. defined pedagogical technology as a complex and integrative process. By the early 1980s, it encompassed the development of computer-based and information technologies in education, further shaping modern teaching methodologies.

1.   "Cluster" [1](Grouping) Method

Creator: American scientist Joseph Novak

Description: This method helps students visually organize and structure their knowledge by creating concept maps. It allows them to break down a topic into smaller parts and understand the relationships between them.

2.   "Insert"[2] (Interactive Noting System for Effective Reading and Thinking) Method

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[1] The word "cluster" is used in various fields and generally means a "group," "collection," or "aggregation."

[2] "Insert" in English means "to place," "to input," or "to add."

Creator: American scientist V. Ogle

Description: This method is used for working with texts. Students use a marking system while reading to reinforce their understanding. For example:

1. "+" – Known information

2. "-" – New or unknown information

3. "?" – Unclear or confusing parts

4. "√" – Important information.

The clustering method is based on cognitive psychology and constructivist learning theory.

It helps students connect prior knowledge with new information.

The method enhances critical and systematic thinking by organizing information logically.

It relies on visual learning techniques, making complex ideas easier to understand.

Originally, this method was used in scientific research and education. Later, it was widely adopted in schools and higher education institutions to improve students' analytical skills.

Insert method is based on the active reading theory, designed to develop metacognitive skills in students.

It encourages students to compare, analyze, and evaluate their knowledge throughout the reading process.

It incorporates Piaget's[3] theory of cognitive development and Vygotsky's[4] social learning theory.

The method shifts the focus from rote memorization to deep comprehension and critical analysis. The INSERT method was initially used in scientific studies and later integrated into school and university curricula, particularly in subjects like literature and history, where deep textual analysis is crucial.

Conclusion

New pedagogical technologies play a crucial role in enhancing the effectiveness of the educational process. They help develop students' independent thinking skills, make learning more interactive and engaging, and provide teachers with modern approaches to improve their teaching methods. Innovative methods such as information and communication technologies (ICT), project-based learning, and problem-solving techniques contribute to strengthening students' knowledge. These technologies improve the quality of education, increase student engagement, and better prepare learners for real-world challenges. In today's education system, it is essential for teachers to adopt and effectively implement new technologies. Continuous professional development and the integration of innovative teaching methods can

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[3] Jean Piaget (1896–1980) was a Swiss psychologist famous for his theory of cognitive development.
[4] Lev Vygotsky (1896–1934) was a Russian psychologist famous for his sociocultural theory of development.

significantly improve the learning experience and overall academic performance. In conclusion, new pedagogical technologies have become an integral part of modern education. When applied correctly, they can make the learning process more efficient, meaningful, and up-to-date. Therefore, educators and educational institutions must actively incorporate these technologies into their teaching practices.

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