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TECHNOLOGY OF DEVELOPING STUDENTS' CRITICAL THINKING ABILITY

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Abstract: The main goal of this research work is to study the technology of developing students' critical thinking abilities and to analyze its significance in the educational process. Critical thinking ability is an activity aimed at developing students' analytical and independent thinking skills in the process of analyzing, evaluating, comparing information, finding solutions to problems, and drawing conclusions. The use of modern educational technologies plays an important role in developing students' critical thinking abilities.

This study focuses on the main principles, methods, and approaches for developing critical thinking. In particular, it highlights technologies such as posing logical and critical questions, applying analytical and evaluative approaches, and stimulating creative thinking to solve problems. The role of the teacher in fostering critical thinking, the effectiveness of interactive lessons, and group activities are also analyzed.

Developing critical thinking helps students not only to succeed academically but also to make independent decisions in life, solve problems effectively, and improve logical reasoning. Therefore, the practical application of technologies aimed at developing critical thinking in the education system will make a significant contribution to improving the quality of education in the future.

This article aims to study the scientific and practical foundations and effective methodologies for developing students' critical thinking abilities, serving to increase the efficiency of implementing these technologies in educational institutions.

Keywords: critical thinking, student abilities, educational technologies, analytical thinking, independent thinking, teacher's role, interactive learning, analytical approach, creative thinking, logical questions, group work, learning process, teaching methodology, decision-making skills, teaching methods.

Introduction

The modern education system requires students not only to acquire knowledge but also to develop the ability to think independently, analyze, and solve problems. Therefore, developing students' critical thinking skills has great importance. Critical thinking is the process of deeply analyzing existing information, making conclusions based on it, making decisions, and finding solutions to problems. These skills are necessary not only for success in education but also in all aspects of life.

Developing students' critical thinking ability allows them not just to memorize ready-made information but to analyze and evaluate their knowledge independently. Critical thinking forms independent reasoning and logical decision-making skills, which have a great influence on intellectual development. Thus, developing critical thinking among students is one of the most pressing tasks of today's educational system.

This study analyzes the main approaches, technologies, and methods for developing students' critical thinking abilities. Effective integration of these technologies into the educational process

helps improve students' cognitive levels. Updating teachers' approaches and adapting educational methods to modern requirements provide practical opportunities for developing students' critical thinking. This process, in turn, ensures not only academic but also social success for students.

Research Methods and Materials

Research Methods

In this study, several methods were used to analyze and test the effectiveness of technologies aimed at developing students' critical thinking abilities:

- Literature Review: Existing scientific literature and studies related to developing critical thinking were analyzed to identify theoretical foundations, methodologies, and best practices.

- Surveys and Questionnaires: Conducted among students, teachers, and educational methodologists to gather opinions on the effectiveness of critical thinking development technologies and to identify influencing factors.

- Experimental Method: Practical experiments were carried out to test specific methods and technologies during the learning process.

- Observation: Students' activity levels, critical engagement, and reasoning quality during lessons were observed.

- Interviews: Conducted with teachers, educational experts, and methodologists to gain deeper insights into methodologies and technologies for developing critical thinking.

Research Materials

The main materials included modern educational curricula, methodological guides, exercises, lesson plans, survey results, experimental data, and analytical reports. Scientific articles and research materials concerning critical thinking's role in education were also examined. Observation results and student feedback were used to analyze outcomes.

Results and Discussion

The research aimed to determine the effectiveness of technologies used to develop students' critical thinking abilities. Various methodological approaches were tested, and students' cognitive levels and attitudes toward critical thinking were analyzed.

Effectiveness of Technologies: Interactive lessons, group work, problem-solving, and logical questioning proved most effective. These methods encouraged open expression of ideas, peer influence, and evidence-based reasoning. Consequently, students demonstrated improved analytical and reflective abilities.

Feedback from Students and Teachers: Survey results showed that students preferred interactive methods for developing critical thinking. Teachers emphasized the necessity of updating teaching methodologies and using innovative technologies. Students achieved the best outcomes in problem-solving and discussion-based sessions.

Experimental Results: Experiments showed that students who participated in interactive and analytical exercises developed significantly higher levels of critical thinking. They demonstrated independence in reasoning, decision-making, and problem-solving.

Teacher Development: Interviews indicated that teachers need continuous professional development to effectively apply critical thinking technologies. Training programs and seminars were recommended to enhance their methodological skills.

Impact on Students: Developing critical thinking improved not only academic success but also communication, reasoning, and personal development. Students learned to articulate ideas clearly and make logical, well-founded decisions.

Discussion

The findings confirmed the importance of developing students' critical thinking. Interactive lessons, problem-solving, and group work were particularly effective. However, to fully implement these technologies, teachers must continuously improve their qualifications and adopt modern pedagogical approaches. Updating educational materials and methods is also essential to promote critical thinking and foster independent, logical learners.

Conclusion

This research confirmed the effectiveness of technologies aimed at developing students' critical thinking abilities. The use of interactive approaches, group work, problem-solving, and logical questioning proved highly beneficial. These methods foster independent thinking, decision-making, and problem-solving skills. Moreover, teachers' ongoing professional growth and adoption of innovative teaching technologies are key to enhancing critical thinking in education.

Developing critical thinking not only boosts students' academic success but also prepares them to become active, independent, and rational members of society. The study emphasizes that integrating critical thinking development technologies into the educational process will significantly improve education quality and intellectual growth.

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