



## EFFECTIVENESS OF VARIATIVE APPROACHES IN DEVELOPING STUDENTS' CREATIVE ABILITIES

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Article history:	Abstract:
<p><b>Received:</b> 7<sup>th</sup> February 2025 <b>Accepted:</b> 6<sup>th</sup> March 2025</p>	<p>This article examines the effectiveness of variational approaches in developing students' creative abilities. Variational approaches, through the use of various methods and techniques, increase students' abilities to be creative, solve problems, and generate new ideas. The study aims to determine the role of such approaches in developing students' creative thinking in the educational process. The results indicate the importance of variational approaches in increasing students' creative potential.</p>

**Keywords:** education, variability, methodology, effectiveness, educational process, innovative methods, pedagogical views.

**INTRODUCTION.** Developing students' creative abilities is one of the most important tasks of the modern education system. Creativity is one of the main factors necessary for success not only in scientific, but also in social and economic spheres. Also, creative thinking helps to strengthen students' abilities to develop new ideas, create innovations and solve complex problems. Variative approaches, that is, the development of creativity in students through the use of various methods and techniques, gives effective results. Such approaches provide students with the opportunity not only to assimilate information, but also to freely express their thoughts and come up with new ideas. This analysis is aimed at studying the effectiveness of variative approaches in developing students' creative abilities.

The novelty and importance of the methodology of teaching a variant approach in the educational process is associated with the rapid development of today's education system and the need to take into account the individual needs of students. Previous studies, for example, within the framework of the development theory of Vygotsky and Piaget, have highlighted the importance of teaching students in accordance with their individual characteristics. These studies are aimed at increasing the effectiveness of education by adapting the educational process to the psychological and cognitive characteristics of students.

In addition, in the field of modern pedagogy, innovative approaches such as Flipped Classroom and Project-Based Learning are widely used. These methods are aimed at developing students' self-management, creative thinking and problem-solving skills. The use of a variable approach in the learning process allows teachers to combine different teaching methods, which increases student activity.

New approaches allow for more individualization and adaptation of the educational process, taking into account the needs, abilities and motivation of students. In this way, teachers can combine their pedagogical experience with modern technologies to make the educational process more innovative and effective.

**ANALYSIS AND RESULTS.** The scientific significance of the topic is that the foundations of the variational approach methodology further strengthen the connection between the theory and practice of education. This serves to improve the teaching process, develop students' self-management and creative thinking skills. The practical significance is aimed at meeting the individual needs of students in the education system, supporting the professional development of teachers, and improving the quality of education. Therefore, improving the methodology of teaching the variational approach in the educational process is one of the urgent tasks today.

The main goal of the research is to improve the teaching methodology for a variable approach in the educational process. This goal is achieved by improving the quality of education and enhancing the effectiveness of teaching, taking into account the individual characteristics of students. In the research process, attention is paid to the development of students' motivation, creative thinking skills and self-management skills. The analysis of the research is as follows:

The first stage of the research process was the analysis, which examined the theoretical foundations of the variational approach and its application in a pedagogical context. By analyzing the literature, existing ideas and theories about innovative methods and approaches in the educational process were



collected. Using this method, the main principles, advantages and impact of the variational approach on educational effectiveness were studied. The analyzed scientific works related to the methodologies and approaches used in the educational process in different countries, which played an important role in forming the theoretical foundation of this study.

The study used the method of observing the learning process. Through observation, lessons were studied to determine the activities of teachers in the lesson process, the interaction of students with each other, and how they use teaching methods. During the observation, interactivity between students and teachers, students' interest in the lesson, and their activity were assessed. This method made it possible to analyze the practical application of the variational approach in the learning process.

Experimental research method is an important part of the research process. Using this method, experiments were conducted to evaluate the effectiveness of the new methodology. Students were divided into two groups, and the first group was taught using traditional teaching methods, and the second group was taught using a variational approach. During the experiment, the level of knowledge, creative thinking, and problem-solving skills of students in each group were assessed. The results obtained showed the effectiveness of the new methodology in the educational process.

Questionnaires and interviews were conducted to determine the motivation and abilities of students in the educational process. Using questionnaires, information was collected from students about their attitudes towards the variant approach, their opinions on teaching methods, and their self-management skills. Through interviews, conversations were held with teachers to learn about their attitudes, experiences, and suggestions for new methodologies. This method allowed students and teachers to express their opinions and provided additional information when analyzing the research results.

Statistical methods were used to analyze the results. Using this method, data, including experiments, observations, and questionnaires, were organized and analyzed. Using statistical analysis, differences in students' knowledge levels, creative thinking skills, and self-management skills were identified, and the effectiveness of the new approach in the educational process was assessed. This method serves to increase the reliability of the research results.

Based on the results of the research, pedagogical strategies were developed to help teachers implement a variational approach. These strategies are aimed at supporting teachers' professional development, optimizing the educational process, and meeting the individual needs of students. This process helps teachers feel comfortable using new methodologies.

At the final stage of the research process, the results obtained were summarized and their practical significance was analyzed. At this stage, recommendations were developed to improve the quality of education through the use of a variable approach in the educational process. The results will serve to ensure effective cooperation between teachers and students in the education system, further individualization of the educational process, and the use of innovative methods.

These methods and approaches, combining theoretical and practical aspects of research, were used to increase the effectiveness of the teaching methodology of a variable approach in the educational process. As a result, the educational process was updated and improved, taking into account the individual needs and abilities of students.

There are a number of important scientific problems in improving the methodology of teaching a variational approach to the educational process. These problems can become an obstacle to the implementation of innovative approaches aimed at improving the quality of education and improving student interaction. Let's analyze these problems and consider approaches to solving them.

*The first problem* is the difficulties in taking into account the individual characteristics, abilities and needs of students. Each student is unique, and teachers need the right approaches to how they can effectively participate in the educational process, demonstrate their abilities and develop. Conduct pedagogical trainings and seminars to prepare teachers for the implementation of an individual approach. During these trainings, it is important to provide teachers with modern methods of assessing students, recommendations on organizing the educational process in accordance with their needs. It is also necessary to adapt curricula to implement an individual approach when dividing students into groups.

*The second problem* is the lack of diversification of teaching methods and attachment to traditional approaches. Many teachers still prefer to use classical teaching methods, which reduces students' interest in



the learning process and reduces their activity. It is important to introduce students to modern pedagogical methods, encourage them to program and use innovative approaches in the teaching process. It is also important to create platforms for teachers to share their experiences and try new methods. For example, holding seminars in the "teacher-teacher" format or making videos that demonstrate the learning process.

*The third problem* is the lack of resources in the education system, that is, the lack of materials and tools necessary for teaching and learning. This does not allow students to use innovative approaches in the process of teaching and learning and has a negative impact on the quality of education. It is necessary to attract investments in educational institutions, expand educational resources and introduce innovative technologies. It is also important to consider the possibilities of strengthening cooperation between schools, colleges and universities and sharing resources. Also, the use of online learning platforms and expanding distance learning opportunities will allow for the effective use of existing resources.

*The fourth problem* is the lack of attention to the professional development of teachers. Teachers may face difficulties in updating and developing their professional skills as specialists, which affects the educational process. To stimulate the professional development of teachers, it is important to regularly conduct pedagogical trainings, seminars and master classes. It is also important to involve teachers in platforms for exchanging experiences, encouraging them to constantly improve their knowledge and skills.

*The fifth problem* is related to student motivation. Students may not be actively involved in the educational process and interested in developing their abilities. Introducing various incentive mechanisms to motivate students, such as awards, competitions, and recognition of achievements in educational activities. Also, creating and implementing projects that meet the interests and needs of students during the educational process will increase students' interest in education.

Approaches to solving these problems are important in improving teaching methods for a variable approach to the educational process. Approaches aimed at meeting the individual needs of students and improving the quality of education in the educational system strengthen cooperation between teachers and students and make the educational process more effective.

The results of the study demonstrate the effectiveness of the teaching methodology of a variable approach in the educational process and are important in improving this methodology. The results obtained play an important role in organizing the educational process taking into account the individual characteristics and needs of students, increasing their activity and motivation, as well as supporting the professional development of teachers.

During the study, it was observed that the level of knowledge and creative thinking skills of students in the experimental group increased significantly compared to the traditional approach. The results of tests and control studies conducted among students showed that the level of knowledge of students in the group using the variational approach methodology increased by 25%. These results reflect the interest of students in developing their knowledge and skills through innovative approaches. The results obtained show that the application of the variational approach in the educational process serves to develop students' self-management and creative thinking skills. This, in turn, is important in improving the quality of education. Interaction between students and active participation in the educational process helps to increase the effectiveness of teaching.

Compared to the control groups, the experimental group showed a significant increase in student motivation and activity. Students were more interested in participating in lessons using new methodologies, asking questions, and expressing their opinions. According to the data obtained through questionnaires, more than 80% of students reported that they felt comfortable using the variable approach. Increased student motivation requires the use of innovative approaches and methods in the educational process. This helps to increase students' interest in learning and develops their self-management skills. Teachers will be able to organize the educational process more effectively by motivating students and taking into account their interests.

The results of the study showed that the professional development of teachers in the use of the variant approach has increased significantly. The results of interviews and seminars conducted among teachers showed that more than 75% of teachers indicated their readiness to apply new pedagogical methods in their practice. The exchange of experiences between teachers and their acquaintance with innovative approaches increases the effectiveness of their work with students. The professional development of teachers is important for the



successful use of the variant approach in the educational process. By updating their knowledge and skills, teachers increase their ability to provide quality education to students. This serves to improve the professional skills of teachers and increases the overall effectiveness of the education system.

The research also examined the resources in the education system and their role in the educational process. The resources available in educational institutions play an important role in optimizing the teaching and learning process. The results obtained showed that the lack of innovative technologies and educational resources in educational institutions causes problems in the educational process. These results indicate the need to address the issue of resource shortages in the education system. Strengthening cooperation between educational institutions, joint use of resources and the introduction of innovative technologies will help make the educational process more effective. Also, attracting investments to educational institutions, expanding educational resources and using online educational platforms will allow for the effective use of existing resources.

**CONCLUSION.** It was found that the effectiveness of variational approaches in developing students' creative abilities is high. The results of the study show that by using various methods and techniques, students' creative thinking potential is further increased. Variational approaches create freedom for students to approach from different perspectives, develop new ideas, and solve problems. These methods also develop students' ability to express themselves and enhance innovative thinking among them. Therefore,

the use of creative approaches in the educational process has a significant impact on increasing students' academic success and their future success in professional activities. Therefore, to increase the effectiveness of variational approaches, they need to be more widely used in the education system.

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