

Effectiveness Of Variative Approaches In Developing Students' Creative Abilities

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Annotation. In the modern educational process, great attention is paid to improving the didactic system of promising and preparing for future teachers. This article also analyzes pedagogical views aimed at improving the methodology for teaching students in colorively in the educational process. The study serves to develop independent thinking skills through the study of modern educational methods and efficiency.

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

Introduction. Educational methods that incorporate a variation-based approach provide students with the skills they need to succeed in life.

Thus, improving the methodology of teaching students a variable approach to the educational process will not only improve the quality of education, but also contribute to the active participation of the future generation in social life and the implementation of innovative ideas. The relevance of this issue indicates its importance for the development of the education system in the future.

Literature analysis. In the world, research is being conducted in the following priority areas for the continuous development and variational modeling of the pedagogical personnel training system:

developing the professional and personal qualities of future teachers based on integrated and differentiated education;

fostering students' creativity, relying on integrative and innovative technologies;

research into modern methods of assessing student knowledge in pedagogical education;

improving ways to use information models in the educational process.

We know that in different periods of human society's development , various directions and features of the problems of forming teachers and mentors, their skills, and beliefs have been scientifically based ideas, thoughts, views, and approaches. In particular, folk pedagogy, which is the origin of modern pedagogical science, and the most ancient national-spiritual values - "Avesta", Orkhun-Yenisei monuments, the Holy Quran and Hadith, the textbooks, treatises, and scientific articles written by Central Asian scholars - Abu Nasr Farabiy, Abu Ali Ibn Sina, Nasriddin Tusi, Kaykovus, Alisher Navoiy, Zahiriddin Muhammad Babur, and modern enlighteners - Abdulla Avloniy, Makhmudkhodja Behbudiy, Fitrat, Munavvarqori Abdurashidkhanov, etc., special attention is paid to the upbringing of the younger generation and the role of the pedagogical profession in the development of society.

In later periods, leading educators such as local scientists - M.Ochilov ¹, S.Kahhorov ², RXDjurayev, TG'afforova ³, R.Shodiev ⁴, N.Muslimov, B.Adizov ⁵, RXFayzullayev, XAYulbarsova, DAMustafoyeva, D.Khimmataliyev, O.Musurmonova, M.Urazova ⁶, Sh.Nurullayeva - were engaged in the study of various aspects of this problem. The study of psychological problems in the pedagogical sphere ⁷was reflected in the scientific research of MGDavletshin ⁸, EG'.G'oziev, A.Jabborov.⁹

The specific features of the formation of personal beliefs in the higher education system and the problem of humanistic beliefs in the training of future teachers were studied by scientists from the CIS countries, such as SA Gogunova, RB Rogachyov, EA Majayeva, NNYureva, S.Yu. Borodulina, RL Valdes, VASlastenin, VI Gracheva, I.Yu. Ibragimova, LP Reutova, while the specific features and possibilities of varying the pedagogical process were studied by scientists such as VVPikan ¹⁰, AGAsmolov ¹¹, Ye.I. Sanina, LI Kulagina, Ye.V. Kleimenova, AV Zolotareva, TV Zhivokorenseva, IA Galaskova, IMGopbatkina .¹²

Foreign scholars such as Quintilian, Ya.A. Comenius, John Locke, I.G. Pestalossi, A. Disterverg, and in recent years Alex Moore, A.Malcolm, D.Dixon, and J.Gaillard have conducted research on the scientific and practical aspects of organizing pedagogical activity.

Analysis and results. Improving the methodology of teaching students to a variable approach in the educational process arises from the need to adapt to the changing social, economic and technological environment in the field of education. Since the end of the last century, innovative approaches and methodologies have been expanding in the field of education. For example, psychologists such as Vygotsky and Piaget emphasized the importance of social interaction between students in the educational process. According to their work, the educational process should not only consist of imparting knowledge, but should be carried out through the exchange of ideas and cooperation between students.

¹ Ochilov M. Teacher - architect of the soul. – Tashkent, Teacher. 2001. – 432 p., Dzhuraev R.H. Interactive technologies in education. – Tashkent, UzPFITI. 2010. – 133 p.

² Kakhhorov S.Q., Jo'raev H.O. Stages of development of media education // Pedagogical skills. – Bukhara, -2017. Number 1. 36–39 p.

³ Ghaffarova T. Pedagogical conditions for achieving the effectiveness of primary education. – Tashkent, 2016. – 128 p.

⁴ Shodiev R.D. Didakticheskie osnovy realizatsii problemi ponimaniya v chebno-nonovatelnoy deyatelnosti. 13.00.01.- Theory and history pedagogy. Dissertation na soiskanie uchenoy stepi doktor pedagogicheskikh nauk. - Tashkent, 2004. -284 p.

⁵ Adizov B.R. Theoretical foundations of creative organization of primary education. Ped. science. doctorate. diss. ...- Tashkent, 2003. -276 p.

⁶ Urazova M.B. Sovreshenstvovanie tehnologii podgotovki budushchego pedagoga professionalnogo obrazovaniya k proektirovochnoy deyatelnosti: dis... doc. ped. science - Tashkent, 2015. – 260 p.

⁷Nurullaeva Sh.U. Modeling as a scientific research method //Teacher and continuing education. Nukis, 6/1 issue. –2020. pp. 26-29.

⁸ Davletshin. M.G. Psychology of a modern school teacher. -Tashkent, "Uzbekistan". 1999.-30 p.

⁹ Gaziev E. General psychology. – Tashkent, “University”. 2010. – 312 p., Zhabborov A.M. Psychological and ethnic characteristics of the Uzbek school teacher. Psyhol. science. doctorate. diss. – Tashkent, 1999. – 317 p.

¹⁰ Pickan V. V. Management of variable education in school. Monograph. - Moscow, APKiPPRO, 2005. - 270 p.

¹¹ Asmolov A.G. Po tu sideronu soznania: methodological problems of non-classical psychology. - Moscow, "Smysl". 2003. - 480 p.

¹² Gorbatkina I.M. Formirovanie gotovnosti studentov pedagogicheskikh vuzov k professionalnoy deyatelnosti v usloviyax variativnogo obrazovaniya: autoreferat dis. ... kandida pedagogicheskix nauk: 13.00.01 / Mos. city ped. flour - Moscow, 2003. 16 p.

At the same time, new approaches such as “smart learning” and “education o” have emerged in 21st century education. These approaches are aimed at developing students' independent thinking, creativity and problem-solving skills. In turn, such methods allow for the implementation of a variable-based approach in the educational process.

In the process of introducing new approaches, personalized learning for students is important. Methods that motivate students to self-manage and achieve their goals, such as gamification, project-based learning, and interactive teaching methods, help increase interaction. Such approaches increase competition among students and encourage mutual support.

In our country, the state and production requirements for the education sector are rapidly changing, increasing the quality and efficiency of education, and great attention has been paid to the systematization and consistent implementation of work on the training of pedagogical personnel with higher education, their continuous professional development, and the establishment of the priority of the principles of variability, integrativity, and differentiation in the education system, as well as comprehensive support for pedagogical personnel working in the field of education . “Today, every teacher and educator, university lecturer should be able to apply the latest positive innovations in the field of education and science to the educational process, possess deep knowledge and worldview, in a word, be the most advanced representatives of our time and society ¹³.” In implementing these tasks, systematization of the theory of the problem of forming students' pedagogical beliefs and determining pedagogical conditions are of great scientific and practical importance. This is reflected in the role of these approaches in improving the quality of education and preparing students for successful social activities in the future. The introduction of a variant-based approach into the educational process not only develops students' knowledge, but also their creative and analytical thinking skills. This, in turn, contributes to the innovative development of the education system, adapting the future generation to modern social requirements.

Thus, teaching students a variation-based approach not only helps them understand themselves, but also ensures their social and professional success. This further increases the novelty and relevance of the educational process.

The main goal of the research is to improve the methodology of teaching students to use a variable approach in the educational process and increase its effectiveness. This goal serves to develop students' innovative thinking and problem-solving skills in accordance with the modern requirements of the education system . This research is also aimed at ensuring an individual approach in the pedagogical process and improving the quality of education.

The first stage of the study is to conduct a theoretical analysis. At this stage, the theoretical foundations, principles and methodology of the variant-based approach are studied. The role and significance of the variant-based approach in the educational process are determined by analyzing the works of major experts in the field of education of the last century, including Vygotsky and Piaget. This analysis is carried out by studying existing literature and scientific articles. This process is important for the formation of theoretical foundations and the creation of a scientific foundation for research.

¹³Mirziyoyev Sh.M. Strategy of the New Uzbekistan. – Tashkent, “Uzbekistan”. 2021. -229 p.

Observation methods are an important tool for studying the variable-based approach to the educational process. With this method, students' activities in the learning process and teachers' approaches are observed. Observations are carried out in classrooms or lessons where practical experiments are planned. Teachers' teaching methods, student participation and interactions, as well as their learning motivation and abilities are observed. In this process, the observer records his or her thoughts and assessments in writing, which helps in later analysis.

The next stage of the research involves the use of the experimental method. With this method, experiments are conducted to implement the variational approach in the educational process. The experiments are carried out to evaluate the activities and results of students in the educational process. The experiments are carried out with a certain group of students and they are divided into a control group. The control group is taught using traditional teaching methods, while the experimental group is taught using the variational approach. In this process, the level of knowledge, creative thinking ability, and problem-solving skills of students are measured.

During the research, it is important to conduct interviews with students and teachers and obtain their opinions and feedback through questionnaires. Interviews, through mutual communication, allow you to get answers to questions related to the objectives of the research. Questionnaires, on the other hand, help collect information from a wider audience. These methods are important for analyzing the opinions of teachers and students, allowing you to gain deeper information about their experiences and approaches to the teaching process.

experiments and surveys are obtained, statistical analysis is performed. In this process, the collected data is analyzed using statistical methods. The results obtained are used to determine the differences between the experimental and control groups. For this, t-test, ANOVA and other statistical methods are used. Using statistics, data visualization and analysis help to understand the results more clearly.

The final stage of the research involves developing practical recommendations based on the results obtained. In this process, recommendations are made on how to implement the variant-based approach in the educational process. The recommendations serve as a practical guide for teachers and educational institutions. This process helps to improve teaching methods and approaches.

These research methods and approaches are designed to teach students a variable-based approach to the educational process and to increase its effectiveness. Theoretical analysis, observational methods, experimental methods, interviews and questionnaires, as well as statistical analysis, constitute the main parts of the research. These methods help to prepare students more successfully in the educational process and develop their independent thinking skills. Such knowledge and skills are important in preparing students for active participation in modern social life.

Within the framework of pedagogical views on improving the methodology of teaching students to use a variant approach in the educational process, a number of important scientific problems arise. These problems are seen as the following factors that hinder the effectiveness of the modern education system and the development of students' independent thinking, creativity, and problem-solving skills:

The lack of an individual approach to the educational process limits the ability to educate students in accordance with their abilities and needs. Each student has a unique learning style and pace, but many educational institutions use traditional teaching methods that do not take this into account. This problem prevents students from becoming self-aware and actively participating in the learning process. To solve

this problem, teachers need to conduct individual communication with students and identify their needs. Also, methods that encourage self-management and personalized learning are needed, such as adapting curricula and developing interactive learning materials.

Currently, the implementation of innovative methods in the educational process is not sufficient. The attachment of teachers to traditional pedagogical approaches and the lack of use of modern technologies prevents the adequate preparation of students. This problem creates significant difficulties in adapting students to modern social and economic conditions. To solve this problem, it is necessary to train teachers in innovative methods and familiarize them with modern technologies. Educational institutions should conduct seminars and trainings that will provide teachers with the opportunity to use modern teaching methods. In this regard, it is important to explain the importance of innovative approaches and modern technologies.

Low student motivation is a significant problem in the educational process. In the learning process, it is important not only to acquire knowledge, but also to develop one's own skills. However, many students lose interest and motivation in the learning process. This reduces the effectiveness of teaching. To increase student motivation, teachers should make the learning process interactive and interesting, taking into account the interests of students. Methods such as gamification, project-based learning, and solving real-life problems help to engage students in the learning process.

interaction and cooperation between students in the educational process limits the exchange of knowledge and mutual assistance between them. This does not prepare students to work in a team, express their ideas freely, and solve problems together. To solve this problem, teachers need to use group work methods and organize activities that stimulate interaction between students. When students work together on projects, collaborate in solving problems, and exchange ideas, their interaction increases.

These problems create obstacles to the implementation of a variant-based approach in the educational process. Their solution is important for improving the quality of education and preparing students for modern social life. Improving the methodology for teaching students a variant-based approach in the educational process requires the development of approaches aimed at solving these problems and their implementation in practice. This process serves the innovative development of the education system and the successful preparation of the future generation.

The results of the study show the importance of using modern teaching methods. Teaching students to adopt a variable approach to the educational process not only helps them to increase their knowledge, but also develops their creative thinking and problem-solving skills. This process also prepares students to actively participate in modern social life.

Creative thinking skills is clearly visible among students who used the variant-based approach. They were able to apply creative approaches in the process of solving real-life problems. These results show the importance of interaction and collaboration in the educational process, as students are able to find new ideas and solutions by working together.

Students were able to apply their knowledge in practice, which played a major role in increasing their level of knowledge. The implementation of a variable-based approach in the educational process is important in adapting students to modern social and economic conditions.

The results of the study allow us to develop practical recommendations for teachers. The educational process can be organized more effectively by using innovative methods, encouraging interaction, and ensuring an individual approach. Teachers should use their experience to improve their pedagogical approaches and make the learning process more enjoyable.

The scientific significance of this study is also of particular importance. The results obtained serve to improve the theoretical foundations of the variable-based approach and innovative methods in the educational process. This opens up new directions for scientific research and pedagogical experiments. It contributes to the innovative development of the education system by creating a scientific foundation for future generations, implementing modern educational methods.

The results of the study show the effectiveness of the methodology for teaching students a variable approach to the educational process. The results obtained are important in improving the quality of education, improving pedagogical approaches and preparing students for modern life. This process provides an opportunity to apply innovative approaches not only for students, but also for teachers and educational institutions. Thus, the results of the study serve the development of the education system and help to successfully prepare future generations.

Conclusion. In general view, the results of the study indicate the effectiveness of the methodology for teaching students a variant approach to the educational process and its importance in improving the quality of education. It plays an important role in preparing students for active participation in modern social life. Such approaches serve to prepare students for successful future activities and contribute to the development of the education system. Thus, the results of the study provide important scientific and practical guidelines for improving the educational process and preparing students through innovative approaches.

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