



National Pedagogical Transformation: Problems and Solutions

A. Hamdamov

University of Science and Technology rector

Abstract: *The article describes the content of national pedagogy in Uzbekistan and its innovations, researches, their results, and related problems and their solutions theoretically and practically.*

Keywords: *National pedagogy, directions of research, STEAM and "4 K" technology, content of education, nature of education.*

Date of Submission: 06-04-2023

Date of Acceptance: 13-05-2023

Methodology: conceptualization of educational content, theoretical analysis, comparative analysis, observation, sociological research, expert analysis.

Relevance of the problem: Since the educational system was formed as a socio-cultural institution, its content and nature have been existing due to the fact that they contradict each other at the same time and require each other at the same time. The conflict and unity between them is realized on the basis of unity of supply and demand, which is the principle of universal development in society. The conflict between the content and nature of education and the implementation of unity according to the principle of demand and supply has been implemented in different levels and forms under the influence of different social factors at different stages of the society's history. However, in any case, the requirements of the state, society, and the individual have played a determining role regarding the content of education. In particular, at the next stage of development of Uzbekistan, this phenomenon rose to the level of state policy.

Analysis and results: We know that the content of education consists of a complex of specially selected knowledge, skills and abilities necessary for the formation of a person, as well as for his effective preparation for social life. Based on the harmony of the interests of the state and citizens, it becomes an algorithm of the educational process by including specific principles, criteria, standards regulating the content of education. And the nature of education is explained as a process arising from the unity of its

subject and purpose.

In this case, the development of the potential of citizens, providing them with solid knowledge, qualifications, and skills that will be useful in practice, the state's need for quality productive forces, the requirement to raise morally, morally developed individuals who serve to raise the socio-cultural level of the society, are the internal and external goals of education. implementation by means of technologies plays a decisive role in the nature of education.

Based on this, in our opinion, in order to increase the efficiency of education today, it is necessary to increase the quality of the balance between the content and character of education.

To ensure that each of the above-mentioned educational content-forming elements is independently prepared theoretically and practically, and at the same time, the prepared concepts are subjected to scientific and practical expertise and are again reviewed by a commission consisting of a team of special experts, and then at least after three years of testing, it is justified to introduce it into the activities of educational organizations. Because the educational system of every country is a socio-cultural value that has an absolutely unique character. Its uniqueness is directly related to important social qualities such as the history, socio-cultural life, traditions, lifestyle, mentality and outlook of this nation.

The goal of education, which constitutes the nature of the pedagogical process, is inextricably linked with the above-mentioned social qualities of the nation and is inextricably linked with the economic, social and political processes taking place in the life of the nation.

As President Sh.Mirziyoev noted, the innovative development strategy and mechanisms of our country are closely related to the effective use of the intellectual and scientific-technical potential created in this country.

At present, more than 300 scientific research institutions, higher educational institutions, experimental design organizations, scientific production enterprises, small innovation centers and other scientific and technical structures are operating in our country.

All this requires a fundamental reform of the organization and management of education and training in the country. In order to meet this demand, a national program on education is being created and a number of new management, marketing, digital economy, pedagogy and psychology "STEAM", "4 K" for pre-school education, primary and secondary, secondary special, higher, post-higher education. new technologies are being introduced.

When we talk about educational technologies, we should pay special attention to concepts such as "technique", "technology", "pedagogical technology", "technological pedagogy", "mechanism" and their place in the educational system.

It is known that "techne" is derived from the ancient Greek language, meaning builder, carpenter, art. Later, it represented the activities aimed at increasing the efficiency of human activity in all spheres,

and other elements such as knowledge, ability, imagination, and construction began to play a priority role.

The German scientist Johann Beckmann (1739-1811) introduced technology to philosophy and pedagogy in 1772 through the book "Introduction to Technology". This doctrine was later actively used in various spheres of society. In particular, STEAM is a technology that has actively entered the field of education since 2007 in pedagogical activities. The author of this is Georgette Wakeman, an American technology teacher. In 2008, he created the "Integrative Education" module and said, "We are now living in a time when science and technology have improved, and we cannot imagine science without technology. It integrates your professional engineering research and development. He wrote that you cannot create this without understanding art and mathematics.

In the new history of pedagogy, in parallel with STEAM, practice-oriented projects and technologies aimed at developing children's creative thinking, acquiring the necessary skills in the educational process, were created. However, it is worth noting that STEAM is an integrated educational technology that enables the development of joint learning of separate subjects, use and implementation of complex projects.

Accordingly, the development of children's creative thinking is the main goal of education. In some audiences, when it comes to this technology, there are views that in the near future all natural sciences will be combined into one system, or rather, in the form of one science. Unfortunately, such a principle is not involved in this technology. Because any integration takes place on the basis of differentiation, according to the increasing demand for theoretical and practical foundations related to the deep and extensive development of each of its elements. That's why we also attach special importance to the development of each specific science. Presidential schools are working according to their direction. Specialized schools operate in many schools under public education. However, in our opinion, the training of qualified teachers who should teach in these schools is not up to the level of demand. In these educational centers, scientific laboratories, scientific centers or research institutes are not established for students. Their material and technical bases are extremely empty, they are not provided with sufficient information resources. These higher educational institutions have not yet begun to create a direct educational and methodological space with educational institutions that are among the top ten and fifty developed countries. In such a case, you would be concerned that the teachers of mathematics, physics, chemistry, biology, informatics, mechanics, etc. they trained are preparing personnel for today's intense and brutal labor markets.

Of course, society also needs personnel who serve in humanitarian, financial and other fields. According to the World Center for Technological Forecasting and Entrepreneurship, 75% of today's occupations are expected to be updated by 2050. Based on this, the content of education provided today

in secondary and higher educational institutions in Uzbekistan should be aimed at the needs expected in 2050. Today, more than 70 private higher education institutions have been opened in a year and a half. Most of these are aimed at training specialists in preschool education, primary education, pedagogy, psychology, finance and other similar professions. Of course, today there is a certain demand for these personnel in our country. However, serious technological changes are being implemented in the above-mentioned areas. The knowledge that students acquire in the classroom today is outdated for their post-education careers. This process itself requires serious consideration. First of all, it should be considered to change the character of the education given in the auditorium, that is, to form the ability of students to organize their own creative research, to form their own critical views on their professional qualifications, to solve their own problems in an unexpected socio-professional situation.

In our opinion, interactive educational technology is useful in solving the above critical issues. This technology is capable of radically changing the nature of education and changing the content of conservative education.

We can use the same technology in the university. For example, in the first course of the "Elementary Education" course, subjects such as psychology, Russian language, English language, introduction to teaching profession, philosophy, pedagogy of primary and continuous education, education in primary education were passed. Of course, the purpose of teaching these subjects will form the knowledge, skills, and abilities of future primary education teachers. To actualize this goal, if the achievements of psychology and pedagogic methods are used in the Russian language and English classes, if foreign languages are used in mastering a separate subject, and if language and thought unity are provided, then on the one hand, language acquisition will be accelerated. On the other hand, they will inculcate the mastered linguistics skills in mastering the primary continuous education pedagogy, as a result, the transfer effect between the methods of mastering subjects would have increased the indicator.

This approach requires the professor-teacher to know not only the Russian language, but also the English language, the pedagogy of primary and continuing education, but also psychology, logic, and design technologies. In that case, the professor-teacher not only builds students' knowledge, skills and abilities in the subject being studied, but also serves to build motivation related to designing in them. According to the experiments conducted during the teaching of pedagogy and psychology, there will be no students of low and high intellectual ability in the audience. There may be motivated and unmotivated students. Motive is not interest. Perhaps it is a materialized, phenomenological intellectual, socio-psychological process. The effectiveness of the current mechanism of this technology will increase only when the professor-teacher can determine the interest and interest in each student from each element of this process in the lesson and can give each of them their own motivational energy.

probably will not give the expected result. This means, first of all, it is necessary to train personnel who will introduce these technologies into the educational process.

In the performance of this task, on the one hand, it is necessary to actively continue experimenting with the implementation of new pedagogical technologies, on the other hand, to include special courses on these technologies in the curricula of higher and secondary special education, as well as to organize similar courses in professional development institutes. increasing the number of demonstration MTTs working on the projects included in the program, organizing mobile and online training seminars in accordance with the requirements of trainers and educators on the ground is also justified. Because time does not wait. The times demand to be ahead of the times.

These processes should be started today based on the available opportunities and conditions. Unity of goals and opportunities according to the factor is an important aspect of increasing the effectiveness of education.

When talking about STEAM technology, in our opinion, it is mainly a technology aimed at training active economic labor resources. Of course, education is very important in character transformation. However, an important aspect of the content of education in any country is the education of a citizen who serves the interests of this country and society. In this regard, the field of education requires students not only to master certain educational content, but also to develop a creative approach to their chosen activities, to improve their skills chronically, to continuously strengthen their will, to increase responsibility for their actions, to be indifferent to the fate of the country, society, and the health of the environment. requires.

In this respect, the determining role and role of humanistic worldview should be increased in today's modern pedagogy. These qualities should be directly involved in the knowledge, skills and abilities of not only "I", but also "We" concept and vision, interaction between "I" and "We". In this regard, the "4K" technology, which is being used with interest in some schools and preschool educational organizations today, is of certain importance. This is the development of the basics of technology, firstly, communicativeness, that is, the ability to communicate with people; secondly, collaboration - that is, formation and development of teamwork skills; thirdly, creative thinking, that is, reaching for innovations in order to achieve one's goal, making unusual decisions, forming inventive skills; fourth, critical thinking, that is, having an independent opinion and expressing it, and a critical approach to the issue.

The mentioned technology does not appear to us as new at first glance. Because teachers and educators in preschool educational organizations and primary education are inculcating not individualism, but collectivism, being cooperative, and being open in dealings in the minds of children.

However, these and similar demands seem to be missing from our multifaceted educational activities today. It is about accepting and implementing the above 4 requirements as a program for today's education.

It is important to prepare textbooks that reveal the essence and character of this program as an important tool in its implementation as a program. Today, children need textbooks that are not theoretical, but practical. The topics presented in these textbooks should be explained on the basis of various plot games related to education and art. These play an important role in children's analytical thinking and innovation, formation of active learning and teaching strategies, organization of complex innovations, critical thinking and analysis skills. It helps to form the unique characteristics of creativity, to strive to be an initiative, to have the potential of leadership and social influence on the group, to use techniques and technologies, and at the same time to ensure that they have the ability to monitor and control the process. In implementing these requirements, the following should be considered. These are: taking into account the specific features of Eastern and Western education, the globalization process taking place in the world requires deep and creative development of each of them. Secondly, both educations should strive to be harmonized based on the uniqueness of each country. At the basis of harmonization lies the law of inheritance of socio-cultural values of this state and society. In our opinion, this legality and the organic unity between both educational systems is the main factor of ensuring the effectiveness of education demanded by the society today.

Also, creating an atmosphere of nationwide demand and interest in education in society is an important means of creatively implementing these technologies. This situation means the same criteria for parents, students and teachers. Today in our country there are a lot of aspiring children and young people studying in pre-school education, secondary school and higher education. However, in some cases, we see a certain indifference towards education among our people, and this indifference seems to be not for education, but for a certificate or diploma. The goal of education is to give children a profession that will bring life blessings throughout their life and to give them the value of being happy with their profession and being satisfied with the life they have lived because of this profession. The greatest happiness for a person is not the wealth he has acquired, but the happiness of the life he has lived.

Based on these, the further development of humanitarian pedagogy in the education given in the pedagogic directions in today's state and non-state higher educational institutions consists in creatively changing the content of education as a result of enriching it with new technologies.

The changing nature of education in Uzbekistan has brought a number of changes to the content of education in recent years. In particular, evening, part-time departments of education were opened. Private, public partnership, family, pre-school educational institutions and private secondary and higher education organizations were established. Distance, online and offline forms have entered the educational process. It is becoming customary for the lessons to be 50-minute sessions, and a number of similar innovations are changing the content of education.

Based on this, we want to emphasize the formation of a balance between the content of education

and its character. This requires purposeful planning of consistent research, scientific, critical analysis and rational conclusions.

List of references

1. Mirziyoev Sh. NEW UZBEKISTAN STRATEGY. - Tashkent: "Uzbekistan" publishing house, 2021. - P.237.
2. Resolution No. 802 of the Cabinet of Ministers of the Republic of Uzbekistan dated December 20, 2020 on approval of the "State standard of preschool education and upbringing".
3. State curriculum "Ilk Kadam" for preschool educational organizations of the Republic of Uzbekistan. Improved 2nd Edition. Tashkent, 2022.
4. Kadirova F. and others "Pedagogy before school" Tashkent, 2019.