

Systematic Analysis of Education

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Annotation: Today, almost all regions of the world are governed by knowledge and intelligence. Today humanity is very advanced in science and education. In our information age, the prestige of intellectual professions is growing. Bringing a person to this potential, realizing his intellectual potential is the most important task of the education system. However, countries around the world see that the economies of countries with underdeveloped education are also underdeveloped. Today it is impossible to educate modern personnel without the introduction of a modern education system. The synergetic methodology is an important area that contributes to integrated education, which can become the basis of modern education based on a systems approach. The problem of a systems approach to modern education, promoted in the article, focuses on interdisciplinary integration, critical and logical thinking as part of synergistic education. This is an approach that corresponds to modern education, proving that it is constantly evolving, tirelessly working on itself and that stagnation in the learning process is unacceptable.

Key words: System, systems approach, systems analysis, modern education, synergetic methodology, science and education, theory and practice.

Today, in almost all areas, the concepts of a systematic approach, systematic analysis have entered. Since the issue of structural analysis, a systematic approach, is associated with a logical and critical way of thinking, it is also included in the series of the most pressing issues of today's era. Today it is very difficult to achieve progress without modern education. Today it is a bitter truth that we must admit that the economy of Uzbekistan, the countries with which education is developed, has lagged behind the education system for at least some years. According to the general information on the role of Uzbekistan in the world rankings of the national movement "Ascension", the country is noted in the international database for measuring and evaluating the impact of the 2019 education system among 203 countries in the world, in the 101th place in the index of 79th place, prosperity and sustainable economic development, in the 105th Today, knowledge and intelligence are driving almost all areas of the world. Today, in science and education, humanity has become very mobile. In the information age today, the prestige of intellectual professions is growing steadily. With so much progress in gene engineering, robotics, nanotechnology, cosmology, biotechnology and many other fields, the human mind is finding its own proof of such a wide range of possibilities. Bringing a person to this potential, realizing the possibilities of his intellect is the most important task of the educational system. Today, without the introduction of a modern education system, it is impossible to train personnel that are in line with modern demand.

The synergetic methodology is an important direction, which, on the basis of a systematic approach, can become the basis for modern education, promotes integrated education. Today, the educational process in the world is so advanced that now developed countries are able to achieve high economic potential with only the mind, without spending any additional material and natural resources, without using any inertia. The only example is that if we look at the economic growth indicators scheme of the United States, which is considered one of the most developed countries, from 1980 to 2010, we notice that this country has been growing in terms of the size of GDP, that is, the level of wealth, even without spending almost no energy since the 1980s [6]. And the main reason for this is only the mind and knowledge. This means that by properly setting up modern education today, it is possible to achieve economic growth even without exerting much effort and labor. On the initiative of the president of Uzbekistan, a lot of reforms have been carried out in

order to provide modern education in the Republic since 2019. For example, Presidential schools, specialized schools, private educational institutions, reforms in the system of higher education, etc.

The manifestation of synergistic laws in education is reflected primarily in the transfer of integrated knowledge in science. Today, in our educational system, issues such as STEAM Sciences, STEAM Sciences, have come into the deepening. What is "STEAM science"? What kind of training is meant when we say the theory of teaching "STEAM Sciences"? it is natural that the question STEAM is an abbreviation of the capital letters of English words, namely:

Science – science

Technology-Technology

Engineering-Engineering

Arts-art

Mathematics-Mathematics

"STEAM Sciences" this is a logical generalization, consisting in the integration of several disciplines, combining theory and practice, applying a practical approach to the process of Education. In fact, the people of Uzbekistan, thinkers have tried to study and contemplate many areas in logical harmony from time immemorial. An example of this is the fact that our scientists, especially medieval Eastern thinkers, were all encyclopedists of encyclopedic knowledge. So the systematic approach to modern education that we are promoting is an approach that is consistent with modern education, which proves that science as part of synergistic education is integral, critical and logical thinking, constantly evolving, working tirelessly on itself, does not allow stagnation in the educational process.

First of all, it should be noted that the educational process can also be the object of systematic analysis as a whole system. The concept of system has been described in many scientific and philosophical literatures, and the essence of all of them is of a mutual nature. A system is an object or set of objects made up of elements. A system is an object or set of objects that consists of interconnected and ordered elements, striving for a single goal. A system is a set of interconnected, controlled elements with a specific structure, each of which performs a specific function, is a single goal-oriented. This definition is specific to complex systems. This definition is more appropriate for us, and the objects that require study in society are precisely complex systems [5]. The educational process we are studying is also a complex system. We can interpret the learning process as a complex system with synergetic laws. The educational process is a complex system because it consists of interconnected and interconnected elements: preschool education, general secondary education, secondary special vocational education, higher education, teacher, learner, and so on. These elements are interconnected in a hierarchical order and strive for a single goal, performing the functions necessary to achieve that goal. But it should also be borne in mind that today the educational process is really approached as a system that develops as a whole, the development of each element of which is considered important for the development of the whole system ?; Or does each element in this system move on its own ?; Perhaps it is difficult to achieve a single national education system, as the educational process in Uzbekistan is still not considered as a whole system. We call it the education system, but is education really considered a system today ?; Is every element of its composition really being reformed together ?; Is every aspect of the educational process working together to improve the level and quality of education? There are many such questions and we believe that it is up to us to find the answers to these questions. In education, it is not possible to achieve results by reforming higher education alone, or secondary education, or pre-school, vocational education. When any reform is implemented, it can only be effective if it is applied in a way that is appropriate to the stage from the bottom up to the top of the education. Each system has, above all, the property of integrity. That is, the integrity of a system is such that its essence as a system is lost when it is broken down into individual parts.

The education system itself is one of the most important types and elements of an entire social system. Education as an integral element of the social system consists of a set of various structurally and functionally related components that serve the purposes of educating and nurturing people and the younger generation, organizing and managing the educational process.

What is analysis? The concept of analysis has the following classifications:

1. The study of an object, an event, etc., in terms of essence, law, and other aspects;
2. To study, evaluate something, information, etc. from a certain point of view;
3. Determining the composition of something and studying its essence [7].

So when we systematically analyze the educational process, we first look at it as a complex system consisting of integral, interconnected elements. Then we examine (analyze) the laws and essence of this complex system, approach the education system from a certain point of view (for example, synergetic) and study the essence of education in a new way.

Among the classic works on the theory of systems are the works of the Austrian biologist Ludwig von Bertalanfi (1901-1972) and his followers. The most prominent representatives of this industry are A.Puankare, A.Bogdanov, A.Kolmogorov, V.Arnold, I.Prigojin, R.Akoff, E.Laslo.

In the process of systematic analysis, a specific system is analyzed from the environment, its composition is determined, structures, functions, integral features, as well as the factors that make up the system and the relationship with the environment are analyzed. The systematic approach applies to sets of objects, individual objects and their components, as well as the properties and integral properties of objects. It is no coincidence that in our country today the support of students, even the issue of student housing, rent is considered at the level of state policy [1]. A lot of such reform is being done. The main thing is that all efforts are focused on the development of education, in our opinion, there is a slight delay in their reception and understanding.

Since the middle of the twentieth century, development in the field of systemic approach and general theory of systems has continued. A systematic approach is one of the important methodological principles of modern science and practice. Systematic approaches are widely used in solving many theoretical and practical problems.

The importance of taking a systematic approach to the educational process is that, as education is an open system, it allows for the best organization of the process based on innovation and knowledge, national and universal experience. An integrated approach involves taking into account the internal and external environment of the process. This means that in the process of modern education, it is necessary to take into account not only internal but also external factors - social, political, spiritual, educational, economic, geopolitical, demographic, environmental and other factors. These factors are important aspects in the analysis of modern education. For example, in many cases, a similar environment is formed when a new social system is formed in society, when educational reforms are carried out, when new ideas and innovations enter, and at this stage of formation, the influence of external and internal factors must be taken into account.

Thus, the systematic analysis of the modern educational process refers to the analytical methods used to study the problems, problems and shortcomings of the educational system with a complex structural basis, which has a theoretical, methodological, scientific, philosophical, economic, social, political, spiritual, legal content. In our study, we recommend the use of synergistic methods based on a systematic approach in this process.

However, it is only on the basis of an analytical approach (dissertation, monograph, scientific article, commentary, report, reference, review and other similar sources and even social systems, including the education system) that industry representatives can explain the content of strategic issues. defines the main tasks of ensuring the development of social, economic, cultural and political spheres. Systems analysis is an interdisciplinary research method that generalizes the methodology of studying complex technical, natural, and social systems. According to NN Moisev, system analysis is a set of methods based on the use of computers and aimed at studying complex systems - technical, economic, environmental and others [2].

It is possible to distinguish the specific strengths and weaknesses of applying a systematic approach in the modern educational process.

The strength of systematic analysis is that it constantly stems from specific needs, influences practice, constantly expands the scope of research objects, and cannot be left out of society's real needs. Today, it is the development of the educational process and the issue of material well-being that has become a basic need of our society.

The weakness of systematic analysis is that this method of analysis sometimes makes decisions as a result of the use of underdeveloped, underdeveloped methods of system research, which in turn leads to the neglect of real problems. Such cases may occur during the research process, but can be resolved later on the basis of consistency and graduality.

The ultimate goal of systematic analysis is to address the problem situation that has arisen in the object of system research (a particular organization, community, enterprise, individual region, social structure, etc.). Today in our society it is expedient to use a systematic approach to solving problems in the education system. However, systematic analysis involves studying the problem situation, identifying its causes, developing ways to solve it, making decisions, and organizing the subsequent operation of the system that solves the problem situation. The first step in researching any system begins with identifying the object of analysis of that system. At this stage, tasks arise that radically separate the methodology of systematic analysis from the methodology of other disciplines.

A systematic approach to the modern educational process provides theoretical-methodological, scientific-pedagogical, scientific-professional content and serves to increase the effectiveness of the educational process. This, in turn, requires the development and implementation of measures for the education of harmoniously developed individuals in the field of education, the introduction of scientific and technological advances in the educational process, the training of world-class professionals, the education system in line with national needs and interests. requires improvement in performance.

The need for a systematic approach to the modern educational process is that this method of analysis plays an important role in the development and consolidation of effective research methods in the field today, as well as in their practical application. In knowing the learning process, its characteristics are a research method of practical importance in determining the level of importance for the development of society, predicting the future of each stage of education or managed subsystems that make up the system.

It should be noted that in systematic analysis, not only the system itself, but also its subsystems should be studied as a whole. The need for a systematic approach to the modern educational process, it plays an important role in identifying and analyzing the problems that are becoming increasingly relevant in this area today, the development of innovative methods of education and upbringing aimed at them. At the same time, as a result of systematic analysis, ideas are formed, which have a constructive character for the development of education. The education system has a special place in society in the self-organization of man, that is, in the self-education, preservation, protection, and, in general, in the ability of man to organize himself in every way. Every sane person lives his life in an interconnected way with the education system. It can be argued that the organization of man through education through self-conscious activity and noble goals depends only on himself. Hence, rational education is potential for a guaranteed future [3].

In summary:

First, a systematic approach to modern education is important today in the implementation of integration activities of all stages of education. Identifies key issues in the learning process, finds their starting point, and suggests solutions.

Second, a systematic approach approaches the application of each innovation in the educational process on the basis of critical and logical thinking and develops theoretical and practical recommendations for adaptation to the national education system.

Third, a systematic approach to modern education is the most basic and important approach to the development of a modern education system, an analytical approach to the import of education from developed countries and its introduction into the national education system.

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