

# Development of The Educational Process Based on A Collective Approach

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**Received:** 24 March 2025 **Accepted:** 20 April 2025 **Published:** 22 May 2025

## ABSTRAC

The article analyzes the role of the integrated approach in the educational process, its theoretical and methodological foundations, its importance in the educational process, cases of its application in practice, as well as achievements and problems in the implementation of this approach, opportunities for its implementation in the education system and recommendations aimed at increasing its effectiveness, the formation of comprehensive knowledge through an integrated approach, interdisciplinary connections, joint teaching of pedagogical disciplines, creative thinking, integration of various disciplines, students' tendency to create new ideas, combining theoretical knowledge with real-life examples, problem-solving skills, the formation of students' ability to see the problem from all sides, the integration of disciplines, methods, technologies and pedagogical methods in the educational process, student-oriented education, organization of the educational process based on the interests and needs of students, the use of innovative pedagogical technologies, the use of modern information and communication technologies and pedagogical methods, monitoring and evaluation of the educational process, and assessing the effectiveness of the educational process.

**Keywords:** Complex, system, integration, approach, education, result, process, factor, theory, practice, problem, recommendation, interpretation, significance, creativity, intelligence, quality, development.

## INTRODUCTION

World experience shows the effectiveness of integrated and complex approaches in the development of the educational system. The improvement of the educational process can be achieved, especially, through the multidisciplinary approach, the harmony of theory and practice, and the wide use of information and communication technologies. An integrated approach covers the educational content more fully, develops students' thinking ability and ensures interdisciplinary connection. The development of the education system is one of the main indicators of the development of society. In modern education, it is important to eliminate the boundaries between disciplines, use integrated approaches and organize the educational process in a complex manner. The collective approach plays an important role in the

effective organization of the educational process, the development of creative and intellectual abilities of students, as well as the modernization of pedagogical processes.

The collective approach, as an important factor in the development of the educational process, has a positive effect not only on the quality of knowledge, but also on the personal development of students. This approach plays a crucial role in improving the quality of human capital by integrating education with life. Therefore, the systematic introduction of an integrated approach to education is one of the urgent tasks.

## METHOD

An integrated approach is an educational concept based on the interconnected use of disciplines, methods, approaches and technologies in the educational process [19]. This approach combines the information, psychological, methodological and technological aspects of education. In this process, the interaction between the teacher and the student is not limited to the transmission of information, but is aimed at the development of independent thinking, analysis, and creativity [5].

Integrated - this word is derived from the Arabic word "majmu'" (collected, collected), and means "generalized", "brought into a single whole", "complex". An approach is a method, view, method of approaching something, a problem, an issue, and "integrated approach" means approaching an issue from several sides, in a complete, comprehensive, interrelated and coordinated way [7].

An integrated approach is an approach based on the simultaneous and interconnected use of several disciplines, methods, technologies, and theories in solving a problem in education, science, or other fields [18].

The following results can be achieved through an integrated approach [10, 11]:

- interdisciplinary connection: comprehensive knowledge is formed by teaching pedagogical disciplines together.
- creative thinking: as a result of integrating different disciplines, students are inclined to create new ideas.
- relevance: knowledge is strengthened by combining theoretical knowledge with real-life examples.
- problem-solving skills: A comprehensive approach develops students' ability to see the problem from all sides.

The integrated approach is based on the integration of disciplines, methods, technologies, and pedagogical methods in the educational process. The main principles of this approach are as follows [20, 21, 22]:

- student-centered education: organizing the educational process based on the interests and needs of students.
- use of innovative pedagogical technologies: application of modern information and communication technologies and pedagogical methods.
- monitoring and evaluation of the educational process:

assessment and analysis of the effectiveness of the educational process.

An integrated approach serves to increase the effectiveness of the educational process in the following areas [12]: development of creative and intellectual abilities: helps to develop students' creative thinking abilities; modernization of pedagogical processes: adapting the educational process to modern requirements; formation of students' independent work skills: development of students' abilities to work independently and solve problems; bringing the content of education closer to life: linking the content of education with real-life events and problems.

A number of works are being carried out in Uzbekistan to introduce an integrated approach to the educational process. In the continuous education system, work is being carried out to ensure the content of subject programs, the logical sequence and coherence of topics [17]. Innovative pedagogy: Work is being carried out to improve the educational process and introduce new pedagogical technologies based on innovative pedagogy. System of continuous professional development of educational institution employees: Innovative approaches have been developed to improve the skills of educational institution employees and develop their professional potential.

The modern education system is undergoing a radical renewal based on the rapid development of society, scientific and technological progress, and new requirements emerging in the labor market [1]. In such conditions, traditional pedagogical approaches are being replaced by innovative, interdisciplinary and integrated approaches. In particular, the integrated approach aims to form students' knowledge, skills and qualifications more deeply through the combined use of various disciplines, methods and educational technologies in the educational process.

## **RESULTS AND DISCUSSIONS**

The integrated approach is important not only for strengthening the knowledge system, but also for developing in students such skills as independent thinking, analysis, creative approach, and correct decision-making in problem situations. This approach can be widely used at all stages of the educational process - from preschool education to higher education - and requires integration in curricula, teaching processes, and assessment systems.

Global changes taking place in the world, the rapid development of digital technologies, and the transition to a knowledge economy pose new challenges for the education system [9]. Today, society needs specialists with sufficient knowledge, who can think independently, solve problems in an interdisciplinary manner, and have a creative approach. This further increases the relevance of introducing an integrated approach in the educational process.

An integrated approach is a systematic approach to education that combines several disciplines and areas of study, aimed at interrelated teaching and bringing the learning process of students closer to life. In it, educational activities are not limited to just one discipline, but rather, are carried out through the joint integration of several disciplines and areas of knowledge. This approach leads to a deeper understanding of the content of education, the development of students' abilities to solve complex problems, critical and systematic thinking, and creativity [15].

In addition to providing comprehensive education in the educational process, the integrated approach also serves to develop the student's comprehensive development and reveal his personal potential. Through this approach, the teacher not only achieves interdisciplinary harmonization of curricula, but also organizes all stages of education - planning, implementation, and evaluation - in an integrated manner.

In the Republic of Uzbekistan, too, the modernization of education, its adaptation to international standards, and the introduction of integrated curricula based on interdisciplinary connections are opening up a wide path to an integrated approach. Cooperation between teachers and students, the use of active pedagogical methods, and the effective use of information technologies in lessons are further enlivening this process.

An integrated approach is an approach aimed at organizing education on a complex and systematic basis, which aims to ensure integration between various disciplines and areas of knowledge. In this approach, the educational process is formed on the basis of interdisciplinary relationships, that is, information is analyzed together, explained and applied in an interconnected manner [13].

An integrated approach: is based on the theory of constructivism (the student independently creates

knowledge); requires a potential (competence) approach (not only knowledge, but also practical application, attitudes and skills are developed); implements an interdisciplinary and multidisciplinary approach in the content of education.

The scientific foundations of the integrated approach are related to such areas as pedagogical psychology, cognitive sciences, educational theory and methodology. In particular:

- John Dewey's view that "education is not preparation for life, but life itself" forms the philosophical basis of this approach [6];
- The cognitive development theories of Jerome Bruner [5] and Lev Vygotsky [3] formed the methodological platform of the integrated approach;
- Bloom's taxonomy also implies stages of complexity of knowledge and skills in an interdisciplinary approach [4];
- PBL (Project Based Learning): Project-based learning - integration of disciplines around a real-life problem [8];
- Case-study: Interdisciplinary analysis based on real-life examples.
- In the integrated approach, the teacher, rather than the classical information provider [2]:
- initiator of dialogue and cooperation;
- guide and organizer of the educational process;
- acts as a methodologist responsible for creating interdisciplinary connections.

An integrated approach serves to increase student activity [14]:

- independent research;
- group work skills;
- development of critical and creative thinking;
- skills of working with various sources of information are formed.

In recent years, the following measures have been

implemented in the Republic of Uzbekistan as part of reforms in the education system [16]: interdisciplinary programs have been introduced in higher education institutions; state programs have been adopted for the phased introduction of STEAM education in schools; digitization work in the field of education, i.e. the introduction of integrated training courses on electronic platforms; teachers' lack of familiarity with the methodology of the integrated approach; insufficient material and technical base for interdisciplinary programs; lack of cooperation between disciplines in higher education.

## CONCLUSION

The integrated approach is one of the important directions of modernization of the content and forms of education. It plays an important role in deepening students' knowledge, forming interdisciplinary connections, and developing analytical and creative abilities. The effectiveness of the integrated approach can be increased by systematically and gradually introducing this approach in the education system of Uzbekistan, forming its methodological, material and human resources. The integrated approach, as an important factor in the development of the educational process, is of great importance in increasing the efficiency of the education system, developing the creative and intellectual abilities of students, and adapting pedagogical processes to modern requirements. The work being carried out to introduce the integrated approach in Uzbekistan is contributing to the development of the education system.

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