

**INTEGRATIVE APPROACH AND PEDAGOGICAL BASIS FOR THE USE OF
INTERDISCIPLINARY CONNECTIVITY IN TEACHING**

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Abstract

In today's educational era, interest in integration has increased due to the acceleration of scientific and technological development, the strengthening of integrative functions in the development of science, education, politics, manufacturing, and technology. Simultaneous conduct of education and training in Oriental countries is also integrated. The integration process (Latin *integratio*) is the integration of previously separated parts and elements of the system into a single integrity, depending on their interrelationship and complementarity.

Keywords: integrated functions, interdisciplinary connections, student creativity, (1) meaningful; 2) operational; 3) methodological; 4) Organizational 3, mathematics of engineers.

Introduction

Today's education has increased interest in the problem of integration due to the acceleration of scientific and technological development, the strengthening of integrated functions in the development of science, education, politics, manufacturing, and technology. Simultaneous conduct of education and training in Oriental countries is also integrated. Generally speaking, when we look at the world as a whole, any processes taking place in it are incompatible with each other. Integration, on the other hand, reflects on these relationships. A wealth of experience has been accumulated in studying integration problems in domestic and foreign pedagogical sciences. At various times, Y.A. Komensky, I.G. Pestalotsi, J. Russo, L.N. Tolstoy, and K.D. Ushinsky advanced the task of using interdisciplinary connections in teaching. Analysis of the literature we are studying shows that the concept of integration was first studied in pedagogy by I.D. Zverev and V.N. Maksimova, who commented: "Integration is an incompatible process and the result of the creation of a whole. Science in revealing the problems of interdisciplinary education. L.G. Savenkova's research is well-deserved. "Integration is primarily a process that ensures the creativity of students and students in the community with changes in education management technologies," he said. The integration process (Latin *integratio*) is the integration of previously separated parts and elements of the system into a single integrity, depending on their interrelationship and complementarity. Integrated into the pedagogical process, researchers understand one of the aspects of the development process related to the integration of previously separated



parts. This process can take place both within the already configured system and within the framework of the new system. Integration in education is the process of establishing relationships between the components of the content within a certain educational system to form a holistic view of the world aimed at personal development and self-development of the teacher. Integration is a process that teaches to alleviate complexity in education, to systematically. Integration of disciplines in modern education is one of the ways to actively look for new pedagogical solutions, develop the creative potential of pedagogical staff in order to effectively and fundamentally influence teachers. An integrated approach is one that helps students prepare their profession as professionals. Integration will prevent students from gaining scattered knowledge, disintegrating their knowledge, ensuring that they acquire holistic knowledge and a framework of universal values. The principle of integration includes the interconnection of all components of the learning process, all elements of the system, the connection between systems, which is the leader in setting the goal, determining the content of the teaching, its forms and methods. An integrative approach means implementing the principle of integration in any component of the pedagogical process, ensuring the integrity and consistency of the pedagogical process. Through integration in education, science and interdisciplinary relationships can be taught in an incompatible way. It gives students a holistic understanding of the world, the perception that systems are interconnected.

In particular, it is clear to all of us that it is possible to cultivate child speech through nature. Natural phenomena and environmental processes can be explained through poems, stories, and systems that are used to grow speech. This will enable a student to develop strong memory, a high imagination, and improve the quality of education in them, not only to ensure that future engineers are well-educated.

The researcher also divides the interdisciplinary relationship into the following types: (1) meaningful; 2) operational; 3) methodological; 4) Organizational 3.

As B.Abdullaha notes, skills and skills constitute the educational process through thought operations.

There are three levels of integration.

- Integration of concepts, knowledge, skills, and so on. inside individual elements;
- Synthesis of interdisciplinary facts, concepts, principles, and so on. two or more science;
- transdisciplinary - components of the main and additional content of education synthesis. What opportunities integrated learning provides us.

An integrative approach gives us the following options.

- creates the necessary conditions for the formation of an expert,
- teaches the teacher to understand the world better,
- to the extent that you can actively work in the social and professional sphere,
- provides students with more requirements for improving the quality of education and motivates the student to improve the quality of teaching and the quality of their knowledge,
- different subjects are interconnected. Integration allows students and students to engage in an active collaborative creative process. This is a well-thought-out educational and



educational process that helps to revisit the overall structure of organizing education and prepare students for the perception process. Teaching students how to understand and analyze information, they develop concepts and ideas about the interaction of all processes in the world as a whole. Alternatively, there are also the disadvantages and negative consequences of an integrative approach.

Y. M. Kolegin and O.L. Alexinko point out the negative factors of integration: "The limited number of curriculum predictions can be supplemented by reflecting the true appearance of the universe and the interrelationship of its parts; "the need to develop reading, writing, and digital skills that are very important.

(Matthew 24:14; 28:19, 20) Today's requirement is to improve the mathematical preparation of future engineers. Students are important in higher mathematics, formation, solutions for mathematics are practical tasks, simulation events and processes, ongoing decision production. At the same time, it is considered one of the trends in the development of modern education. At the same time, reduced amounts are one of the trends in the development of modern education during the training of allotted hours, interdisciplinary integration reading is being introduced at technical universities. To assist individuals desiring to benefit the worldwide work of Jehovah's Witnesses through some form of charitable giving, a brochure entitled Charitable Planning to Benefit Kingdom Service Worldwide has been prepared. At the time, the engineers in the main direction are mathematical wristbands, and these are the engineers of the future.

References

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