

3-sho'ba

**TA'LIM JARAYONIDA FANLAR INTEGRATSIYASI: NAZARIY ASOSI VA
AMALIY AHAMIYATI**

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Annotatsiya. Bugungi kunda zamonaviy ta'lim jarayoni yosh avlodga chuqur bilim berish bilan birga, ularning mantiqiy va ijodiy fikrlash qobiliyatlarini rivojlantirishga yo'naltirilgan. Ta'lim jarayonida an'anaviy fanlararo bog'lanishlar yetarli bo'lmasa, ta'lim fragmentar xarakter kasb etib, o'quvchilar o'rganayotgan bilimlar orasidagi mantiqiy bog'liqlikni tushunishda qiyinchiliklarga duch kelishi mumkin. Shu sababli, fanlar integratsiyasi ta'lim samaradorligini oshirishda muhim ahamiyat kasb etadi. Ushbu maqolada fanlar integratsiyasining nazariy asoslari, uning ahamiyati va amaliy qo'llanilishi tahlil qilinadi.

Kalit so'zlar: ta'lim jarayoni, integratsiya, fanlararo, mantiqiy fikrlash, ijodkorlik, qobiliyat.

Annotation. Today, the modern educational process is aimed at providing the younger generation with in-depth knowledge, as well as developing their logical and creative thinking skills. If traditional interdisciplinary connections are not enough in the educational process, education may become fragmented, and students may have difficulty understanding the logical connections between the knowledge they are learning. Therefore, the integration of disciplines is of great importance in increasing the effectiveness of education. This article analyzes the theoretical foundations of the integration of disciplines, its importance and practical application.

Key words: *educational process, integration, interdisciplinary, logical thinking, creativity, ability.*

Integration of subjects is the process of strengthening the interconnection between different educational areas and organizing the educational process as a whole. The main goal of integrated education is to teach students to connect the knowledge gained in different subjects with each other and apply it in real life.

The scientific basis of integration of subjects is based on the following principles:

1. Systematic approach - teaching knowledge in a consistent and interconnected manner.
2. The principle of interactivity - increasing the activity of students and actively involving them in the educational process.
3. Practical orientation - the ability to apply the acquired knowledge to solve real-life problems.

The integration of disciplines provides a number of positive results in improving the quality of education. First of all, it broadens the worldview of students. The knowledge learned within one discipline is connected with other disciplines, making it more meaningful and understandable. In addition, it encourages young people to think creatively and develops students' creative thinking. Students learn to combine knowledge gained from different disciplines when solving problems. It strengthens interdisciplinary connections.

For example, subjects such as mathematics and physics, biology and chemistry, history and literature are closely related, and studying them together is more effective. It ensures the integration of theoretical knowledge with practice. Students have the opportunity to apply the knowledge they have gained in real-life situations.

Integration of subjects can be used in various forms at different stages of education and in different subjects. The following are its main practical aspects:

1. Interdisciplinary projects and research
 - Students can conduct ecological research in biology and chemistry.

- Programming projects can be developed based on the integration of mathematics and computer science.

2. Integrated lessons

- History and literature can be taught together, so that students can understand the connection between the literature of a particular period and historical processes.

- A lesson on architectural design can be taught based on the integration of geometry and art.

3. STEM Education (Science, Technology, Engineering, Mathematics)

- Through the STEM education approach, science, technology, engineering, and mathematics are taught in an interconnected manner.

- Students learn to solve problems using their knowledge of mathematics and physics in engineering projects.

In conclusion, it can be noted that the integration of subjects is one of the important aspects of the modern education system, which serves to strengthen the knowledge and skills of students. It creates the opportunity to develop their logical, analytical and creative thinking skills, and to apply the acquired knowledge to life. Therefore, the widespread introduction of integrated teaching methods is important in increasing the effectiveness of the educational process.

The list of used literature

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