

SPECIFIC CHARACTERISTICS OF USING INTEGRATED TECHNOLOGIES IN THE EDUCATIONAL SYSTEM

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Key words: educational system, differentiation, integration, integrated technology, inversion.

Abstract: this thesis provides information about the specific features of the use of integrated technologies in the educational system.

Development processes continue as a result of the exchange of different forms of differentiation and integration. Today, integration processes are entering all aspects of human life and becoming an important method of modern thinking. There are different interpretations of the term "integration", which are based on a common idea.

While researching the issues of integration in computer science and information technology education, we aimed to solve the problem of integration in two directions, based on the content of education (sciences) or teaching technologies. The integration of educational content is carried out by means of interdisciplinary communication, and the status of the main subject in interdisciplinary communication can consist of different options. When establishing connections between two educational subjects and integrating them, one or another subject serves as a basis from time to time.

For example, the essence of inversion can be explained in the following example. Watercolor paints used in the field of visual arts are applied to the field of computer graphics as a result of inversion in the field of "Informatics and Information Technologies" in the 5th grade, and are presented in the form of electronic color, which is used to create multi-colored images. When this knowledge is transferred to other objects, it acquires a different direction and serves to solve other professional tasks. For example, the knowledge acquired in the course of studying "Informatics and information technologies" will be inverted and become professional knowledge for training future science teachers. The knowledge of the fields of science becomes professional knowledge in the course of the future teacher's study of special subjects and production practice. If such changes are not implemented, if general education and knowledge of special subjects are not applied to professional activity, they will be important for the future specialist only as propaedeutic information, not as professional knowledge.

Until today, a number of scientific research works have been created on the use of integrated technology to increase the effectiveness of teaching in the education system, but the improvement of the use of integrated technologies in accordance with the modern requirements of the subject "Informatics and information technologies" of general secondary schools is an urgent issue.

Based on the analysis of the topics given in the curriculum and textbooks of general secondary schools, it can be said that different subjects can be taught using integrated technologies. In particular, it is possible to teach "Informatics and information technologies" using technologies integrated with such subjects as algebra,

geometry, visual arts, drawing, and the basics of economic knowledge.

In particular, the method of working with watercolor paint in the "Color image" chapter of the 1st grade visual arts; Work with geometric shapes; Draw a sketch with a pencil and color the image; Forming edge images; We can see topics such as combining several images in the chapter "Working with graphic editors" in the 5th grade textbook "Informatics and information technologies".

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The task of making houses on the topic "Making various furniture from paper boxes" from the 3rd grade Technology subject is related to the topic "Possibilities of placing shapes, pictures, tables and diagrams on slides" from the 6th grade "Informatics and Information Technologies" subject. It can be seen that the tasks given in the two textbooks are compatible with each other.

Tasks given from the 3rd grade technology subject "Composition of a pattern from airbrushing" are related to the 5th grade computer science subject Drawing assignments in the Paint.Net program on the topic "Illustration in simple editors".

As a result of the analysis of the curriculum of general secondary schools, taught subjects and their content, it can be said that if the subjects in them are organized in the teaching of "Informatics and information technologies" using integrated technologies, the quality of education and it can be concluded that the efficiency will increase even more.

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