

Enhancing the Quality of Education through Information Technologies

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Abstract: The current stage of educational development emphasizes the wide integration of computer technologies into the learning process. They provide opportunities for advancing teaching to a new level, opening up possibilities that were previously inaccessible for both teachers and students. Information technologies are utilized in various fields of education, aiding not only in specialized topics but also in enhancing the overall understanding of subjects being taught.

Personal computers (PCs) assist students in practical exercises to enhance their knowledge, facilitating the creative fulfillment of educational tasks. Nowadays, the use of computer technologies in the school system is seen as essential. Personal computers offer vast opportunities for personal development, educational software markets, multimedia tools, and the internet provide significant potential for self-improvement. Utilizing multimedia tools (colorful and audio designs, animations) and distance learning methods (teaching and monitoring programs, interactive regimes, various levels of complexity) helps to utilize the knowledge base, changing the role of the teacher in the educational process.

The role of the teacher as an information communicator and developer is crucial and contributes to knowledge excellence. Essentially, teaching the application of new knowledge, correctly integrating it into the students' intellectual environment, emphasizing the importance of subject and interdisciplinary relations, developing sustainable skills based on them, fostering the intellectual and creative abilities of students; and ensuring entry into the highest level of the educational process.

In various methods of learning computer graphics, the most important, the use of learning material in the graphic design regime is possible, as the computer's illustration capabilities are much higher than those of any paper textbook or classroom drawings. It is necessary to pay special attention to describing the unique capabilities of information technologies, as their implementation creates conditions for restructuring the unprecedented learning process in the history of pedagogy, creating conditions for developing innovative teaching methods.

New information technology tools:

- quick communication between users and information technologies;
- visualization of learning materials about objects or processes, both real and "virtual";
- sufficient storage of large amounts of information in the archive, its extension capability, as well as convenient access and use by users to the central information bank;

- automating information-search activities, as well as reprocessing the results of learning experiments with the possibility of repeating the experiment or examining its fragment several times;
- automation of information-methodological support processes, organization, management, and personalization of educational activities.

Utilizing the capabilities of information technologies in the ways mentioned above provides the opportunity to organize the following activities:

- listing, collecting, storing, reprocessing, and presenting extensive information in various forms;
- interactive dialogue - the user's interaction with the software (software-hardware system). Unlike dialogue (considering the exchange of text commands (questions) and responses (suggestions)), it is described as further developing dialogue implementation tools. Providing the opportunity to choose variants for the content and sequence of tasks for the content and sequence of tasks in any form, using a set of restricted signs in the form of the word "key".

Thus, the benefits of using new information technologies as educational tools contribute to the improvement and effectiveness of the educational process.

Special education in information-communication technologies aims to eliminate breakdowns and improve the general weakness. In lessons, corrective and developmental activities, the use of computers is one of the methods of supporting mentally weak students with positive motivation for learning. This is one of the effective means of consolidating learning material. Students' reading, memorization, not only develops their speaking skills but also activates their mental activities.

In specialized support schools, the advantages of using computers in corrective-developmental classes provide students with the opportunity for differential and individualized learning.

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