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Informatization as Bases for Improving Education Quality

Key words: *education, quality of education, informatization, information and communication technologies.*

Annotation: *the article deals with the modern information systems and resources used for the purposes of improving the education quality in secondary and high school by means of information and communication technologies.*

Today the world community is characterized by a qualitatively new level of development, based on the use of information and communication technologies. The main element of information are the information systems and resources, which are different from general engineering applications and are subject to daily necessities. Informatization - is organizational and technical, technological, social and economic process of the creation of conditions to meet the information needs of the use of information resources, technologies and systems.

Of great importance from the first steps of independence given to ensuring the constitutional rights of citizens to education in the Republic of Uzbekistan, the further development of educational structures, coverage of all forms of education and training. This also applies to the system to ensure all areas of information and education entities. Higher educational institutions of the republic in an open economy to a greater extent than before, forced to reconcile its activities with the world achievements in this connection than there was a need to create a new information service system based on modern technical base and advanced information and communication technologies, covering all aspects of the activities of the educational institution.

Education as the most important sphere of human activity, ensuring the formation of the intellectual potential of society, is now all over the world in a very difficult position. In other words, the amount of knowledge needed to man, it becomes more and more as they are updated more quickly, and the time period in the rights education (from primary to tertiary) remains virtually unchanged. With the emergence of the global Internet data exchange rate, access to it has increased by several orders. Today, the Internet - a powerful information and communication technology to influence the development of the global society and in this area include a growing number of users.

Information society - a society, the level of which crucially determined by the quantity and quality of the accumulation and use of information, its accessibility. The term originated in the second half of the 60-ies., When mankind first became aware of the presence of "information explosion." The amount of information circulating in the community, has been rapidly increasing. There was the belief that to cope with the avalanche of information a person cannot. This requires special tools of information processing and its storage and use, called information technologies (2, p. 5).

The most important task of informatization of education:

- improving the quality of training through the use in the educational process of modern information technologies;
- the use of active learning methods, enhancing the creative and intellectual components of educational activity;
- Integration of different types of educational activities (training, research, etc.);
- adaptation of information technology training to the individual needs of the learner;
- development of new information technology training, contributing to enhance the cognitive activity of the student and enhance motivation to the development of tools and techniques available for effective use in professional activities;
- ensuring continuity of learning;
- the development of information technologies for distance learning;
- Improving software and methodical support of the educational process;
- the introduction of information technology education in the process of professional training of specialists in various fields.

In the process of informatization of a number of problems hindering its development. In particular, - psychological problem - not the willingness of the population to move into the information society. This transition is currently hampered by the low level of information culture of the population, lack of computer literacy, and hence the lower information needs, as well as a lack of desire to develop them.

The global aim of informatization of education is radically improving the efficiency of the quality of education that meets the requirements of post-industrial society. The global objective is multifactorial, including a number of sub-goals, such as:

- Preparing students for full and effective participation in all spheres of life in the information society;
- Improving the quality of education;
- Increase in the degree of access to education;
- Information integration of the national education system in the world's infrastructure (1, p. 7).

The process of informatization of education leads to the following positive changes:

- Transfer the center of gravity to the learning teaching.
- The teacher turns to the mediator, helps the student to extract information.
- Creating stronger links between the studied subjects and the surrounding reality.
- Ability to modeling of living space with a computer allows you to enter the subjects taught in the context of children's lives.
- Changing the model of "education for life" a new approach - "education throughout life".
- Formation of the network communities in education, which allows efficient use of geographically distributed human potential.
- Getting an education, regardless of where they live, and human mobility.
- Education is becoming accessible and open to all (distance learning)
- The emergence of home education.
- Tremendous savings of social time.
- The development of human intelligence, his creativity and critical thinking (2, p. 15).

Information technology (IT) - practical part of the scientific field of computer science, which is a set of tools, methods, computer-aided methods for collecting, processing, storage, transmission, use, production information for specific, clearly-expected results (2, p. 10).

The idea of the development of new learning technologies based on a broad computerization and informatization of education system have caused global trends such as:

- Humanization and humanization of education;
- A multi-level and advanced training;
- Continuity of education, the need to increase knowledge throughout their lives;
- Socialization and professionalization of the individual (1, p. 6).

A fundamental element of this school should be information-technology environment with constantly developing educational space (2, p. 8).

Information and communications environment - a set of conditions to ensure the implementation of user activity information resources (including the distribution of informational resources), with the help of interactive ICT tools and interacting with him as to the subject information communication and personality.

The problem of informatization of education is now at a new stage of its development, the main content of which is that the priorities are not tools and informative education informatization problem. They have to be in the spotlight today, scientists, educators, professionals and educators, as their solution depends largely on the quality of education, the social significance of which is growing rapidly.

Informatization of education is a necessary condition for solving the major problems of the education system - its fundamental nature, improving accessibility for the general population, giving the formation of advanced nature with a view to preparing people to conditions of life and work in the new information environment. Therefore, informatization of education should be seen today as a strategically important area of development.

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