

# The Essential Role of Distance Learning Technology in the Development of Higher Education

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**Annotation.** This article discusses the impact of distance learning on the quality and effectiveness of distance learning in the higher education system, the development of new technical means of distance learning and its widespread use in the educational process, in particular, the development of partnerships with foreign scholars. to enable users to study in a voluntary educational institution anywhere in the world, regardless of their place of residence, to improve the quality of education based on the professional potential of professors and teachers in educational institutions, to create opportunities for continuous education for users, to bring different forms of education closer together issues have been interpreted.

**Key words:** education, system, process, tool, opportunity, training, quality, distance, mobilization, university, technology, technical means, motivation, competence, development.

**Introduction.** Modern information and telecommunication tools allow students to choose each subject according to the level of difficulty, as well as to study them in accordance with their interests and professional plans. This situation changes the old views in education that have been preserved from the past.

The method of distance education crosses the borders of the Republic, interacts with the Commonwealth of Independent States and major educational centers around the world, and serves to create a new modern integrated educational opportunities. In this regard, significant work is being done in educational institutions of the country. The content and requirements of the state policy of the Republic of Uzbekistan on the system of higher education also require the development of educational activities of students. In order to ensure the fulfillment of these tasks, continuing education in the country, in particular, integration with leading foreign countries in the field of higher education, at this stage of education can demonstrate in practice its quality, efficiency, transparency, practical value. there will be an opportunity to achieve the expected results in staff training.

Globalization, by its very nature, requires cooperation and integration with the countries of the world community, leaving a particular region [1].

Therefore, in order to improve the system of higher education in the country, aimed at raising the efficiency of the country's institutions at this stage to the level of world standards in the field, it is necessary to develop the educational activities of students [2].

**Main part.** Today, in all universities of our country, our students have the opportunity to learn from leading professors and experts working in other countries. In addition, the current system has the opportunity to quickly transfer new knowledge and experience, increase the cost-effectiveness of education, the widespread use of audio-video, animation, graphics in the educational process.

The terms "distance learning" and "distance learning" have been used regularly since the 1990s, when the distance education system was formed. Despite the fact that the distance education system is currently improved, the meaning of terms such as "open learning", "distance learning" and "distance learning" is still debated [3].

The term "distance education" has not found a stable place in sources created in Russian and English. This concept is also used in such options as "distance learning", "distance learning". Some foreign researchers emphasize the importance of telecommunications in the organization of distance learning and describe it as tele-learning (teletra) [4].

In the pedagogical literature, the concept of "distance learning" is recognized as a set of special educational services based on the use of new information technologies that provide distance learning to the learner (via satellite, television, computer networks, etc.) [5, 6].

The science of pedagogy develops in accordance with the general trends and laws of development of knowledge and social practice. Therefore, it is important to study foreign experience in the field of vocational education and the use of their advanced ideas in national educational practice.

Foreign and national research on the problems of educational theory and practice confirms the special relevance of the effective use of distance learning.

Theoretical and practical issues of distance education, which is a synthetic, integral and humanistic form of education, confirm that it must solve many problems facing the national education system in the context of reforming the education system.

In the analytical study of the process of formation of the theory of distance education on the basis of foreign experience requires special attention to the form, method and didactic means of distance education in educational institutions.

Distance learning is a system of providing educational services using a special information environment based on the means of exchanging educational information at a distance.

Distance education includes a set of information technologies that provide students with the main volume of the studied material, interactive interaction of students and teachers in the educational process, allow students to work independently on the study of the studied material, as well as assess their knowledge and skills.

Distance learning information environment is a system-organizational set of means of information transmission, information materials, protocols of interaction, software and organizational-methodological software that serve to meet the educational needs of users.

Theoretical analysis of the available materials showed the following trends in the development of distance learning:

1. Increasing the number of educational institutions that provide vocational training with the help of new information technologies.

2. Coordination of organizational systems of educational institutions. In particular, a consortium of remote universities has been developing in recent years. The consortium provides distance education services as a specialized organization that unites and manages the activities of several universities. The consortium offers a range of courses designed by applicants from universities operating in various fields, ranging from courses specifically designed for applicants to allow professionals to earn academic degrees.

**Results and Discussions.** Distance learning is one of the forms of continuing education, aimed at ensuring the human right to education and information.

Distance learning is a new structure of the educational process based on the principle of independent learning of the student. The learning environment is characterized by the fact that learners are often or constantly far from the teacher in terms of space (or time). At the same time, they will be able to communicate using telecommunications at any time [7].

The main objectives of distance education are:

- to enable users to study at a voluntary educational institution operating anywhere in the world, regardless of their place of residence;

- Improving the quality of education based on the professional potential of teachers in educational institutions;

- creating opportunities for continuous learning for users;

- bringing different forms of education closer to each other [8].

Pedagogical distance education has the following opportunities:

- be considered as a specific direction;

- individualization of teaching and learning;

- taking into account the psychological characteristics of the student;

- strengthening the motivation of students to study, improving and developing their knowledge;

- ensuring interdisciplinary continuity;
- use of problem-based teaching methods;
- enrichment of education with modern teaching methods;
- the ability to consistently use group and individual teaching methods.

The difference between distance education and traditional education:

- high mobility due to flexibility;
- the ability of students to work independently;
- educational-methodical support is diverse and allows to increase the efficiency of the educational process.

The distance education system includes:

- preliminary organizational work.
- transmission of electronic lectures and manuals to listeners;
- correspondence of listeners with the tutor-consultant;
- correspondence of professors and teachers with the audience.
- independent work of students;
- current control, intermediate and final;
- preparation and defense of the thesis (abstract);
- presentation of a diploma (or certificate) to students;
- tv conferences of various types.

The following methods can be used in distance learning:

- methods of teaching students through the interaction of independent learning objects with the participation of the teacher;

- one-on-one teaching and reading methods of one listener with one teacher or one listener with another listener;

- methods of providing teaching materials to students by the teacher or student. methods in which there is active communication between all participants in the learning process (“many to many”) [9].

The experience of creating a distance learning system shows that computer-assisted learning is an evolving system in its own right. In recent years, computer telecommunications networks have been developing rapidly. Further improvement of the methodological support is required for their effective use [10].

Currently, case-study-style teaching aids have been developed for independent study of the presented material. It includes textbooks, recommendations for their use, various visual aids.

Distance learning is a process that connects teachers and students in different geographical areas, and interactions are carried out using special technologies. Different methods are used to communicate: the exchange of printed materials by mail and fax, audio conferencing, video conferencing, computer-assisted virtual conferencing. There is a growing demand for distance education among those who live far from the university, those who do not have the conditions to attend, those who want to improve their skills, the disabled and others who for various reasons do not have direct access to higher education. Distance learning is a very convenient tool, especially for busy adults, who want to study in a second specialty.

The following trends are also important in the development of distance education:

1. Increasing the number of educational institutions that provide vocational training with the help of new information technologies;

2. Coordination of organizational systems of educational institutions.

The quality of education that characterizes distance learning with five main conditions:

- interaction between teacher and student;
- the teacher is at a certain distance from the students;
- two-way communication between teachers and students;
- availability of special materials for distance learning;
- both parties are provided with computers and other equipment and communications

It is known that the principle of orientation of education to educational and developmental tasks in teaching means that the teacher does not forget about the educative and developmental

potential of the lesson on a particular topic, forming certain knowledge, skills and abilities in students.

**Conclusion.** Distance education has proven to be one of the factors leading to significant future changes in higher education in its development phase. One of the important issues here is to study the relative advantages and conveniences of other forms of distance education, including the positive impact on improving the quality and effectiveness of education.

Distance education is now entering a new phase of development worldwide. This is mainly due to the fact that the basic technologies and methods of teaching have not changed, mainly due to the development of new technical means and their rotation at the level of public capabilities.

New information technologies place serious demands on the quality and level of the educational process. Through the use of information technology, the educational process is significantly optimized. They also ensure the introduction of two basic principles, namely, integration and technology.

The use of information technology and telecommunications in the field of distance education can get the maximum benefit only when other components of the technical, technological, informational, normative, organizational and distance learning process are developed in harmony.

Distance learning did not happen suddenly and completely. The development process was gradual. With the emergence of new technologies of education, their use in the system of distance education, its various manifestations have evolved. So far, it has taken the form of a model based on fully multimedia materials, including different generations of distance learning technologies and multimedia. All of this is the result of technologies complementing each other, not replacing each other.

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