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## MECHANISMS FOR DEVELOPING DISTANCE EDUCATION IN THE DIGITAL WORLD

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### Abstract

This article discusses the relationship between teacher and student in the development of distance education, as well as methods for assessing assimilation. Furthermore, the current state and problems of distance learning are examined.

**Keywords:** Digital technologies, information and communication technologies, modern education, digital knowledge, Internet system, distance learning.

### Introduction

Similar to other independent Commonwealth countries, Uzbekistan is making significant efforts to bring its education sector up to world standards. The country's vast territory, size, and the existence of geographically remote regions from the center are key reasons for the development of digital e-learning, leading to its prioritization. In the current period of financial constraints, it is essential to utilize this form of education on a large scale. The emergence of certain problems related to implementing this form of education is natural. These primarily involve funding, technical support, and a shortage of qualified engineers and teaching personnel in this field. However, we must resolve these problems within the realm of possibility because organizing distance education in the conditions of Uzbekistan will undoubtedly yield significant benefits.

Digital technology refers to technologies that enable the electronic reception, storage, processing, and distribution of information via computers and computer networks (often over the internet).



Distance learning is a form of education that involves students using the internet and modern technologies to study educational materials remotely, test their knowledge, and communicate with teachers.

Distance learning technologies are designed to simplify the educational process and improve its quality. With their help, teachers deliver necessary information to students, test their knowledge, gather feedback, answer questions, and exchange photos and audio materials. The choice of tools often depends on the goals, capabilities, interests, and preferences of all participants in the educational process. Traditionally, the following groups of distance learning technologies can be distinguished:

**LMS (Learning Management Systems).** These are server and cloud-based platforms that allow for the creation and management of educational courses. An LMS helps not only in teaching students but also in interacting with them, monitoring the educational process, and issuing certificates. Cloud systems are especially popular because they require no installation and are easy to use. The MOODLE platform is an example of such an LMS for creating online courses.

**Distance education communications** may include email services, messengers, social networks, websites, as well as services like Google Classroom or Zoom. To make the educational process more engaging and memorable, game elements are often used. These can be chatbot quizzes, trivia, specially developed applications, and others. Gamification tools increase student engagement and also help diversify learning and knowledge testing.

Several mechanisms exist for developing distance education in the digital world. These mechanisms may include:

**1. Distance Learning Platforms:** Digital platforms play a significant role in enhancing distance learning opportunities for students. Examples of such platforms include Moodle, EdX, and Coursera. Through these platforms, students can learn skills related to courses, take tests, and complete exams.



**2. Recorded Lectures:** Lessons acquired through digital platforms are presented in video format. These videos allow students to learn the lesson directly at a time convenient for them.

**3. Interactive Lessons:** Interactive lessons presented through digital platforms and websites enable students to set their own pace for learning. Using powerful programming languages like HTML5 and JavaScript, it is possible to create interactive files, animations, and tests.

**4. Websites and Applications:** A second crucial part of distance education is presenting collections and resources in electronic format. Websites and applications provide opportunities for accessing learning materials, offering resources for solving tests and problems, and analyzing students' learning processes.

**5. Mobile Applications:** Mobile applications are of great importance in improving the forms of consumption for students. User-friendly interfaces in such applications unlock students' capabilities and they can utilize the internet effectively.

**6. Video Conferencing and Online Chats:** Video conferencing and online chat services can be used to facilitate communication between students and teachers. These mechanisms address students' inability to leave inquiries with teachers and allow teachers to provide free consultations and other assistance to students in their foundational learning.

These mechanisms enable students to benefit from the achievements of distance education and create opportunities for the expansion of distance education worldwide. Through these many mechanisms, distance education becomes extensive and effective for learners.

In conclusion, it can be said that distance learning is not only necessary for educational institutions today but also plays a significant role for large corporations and institutions in the current globalization process. It is crucial for

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training their own specialists, retraining them, and maintaining their knowledge and skills at a high level. In the distance learning method, even if the student and teacher are separated by distance, constant communication is maintained. This is accomplished using email and internet technologies, which become a distinct method of controlling the teaching process.

## REFERENCES

1. Akhmedov, B.A., & Khasanova, S.K. (2020). Public education system methods of distance in education in development of employees. *Journal of Innovations in Engineering Research and Technology*, 1(1), 252-256.
2. Abdullayev, M., Saidahrar, G., & Ayupov, R. (2020). Raqamli iqtisodiyot - kadrlar tayyorlashning dolzarb yo'nalishlari. *Arxiv nauchnix issledovaniy*, 1(23). izvlecheno ot <https://journal.tsue.uz/index.php/archive/article/view/2702>.
3. PRIORITY DIRECTIONS OF EFFICIENCY OF USE OF DIGITAL TECHNOLOGIES IN THE EDUCATIONAL SYSTEM. MZ Abdullayevna
4. Analysis of The Integration of Information Technologies and Pedagogical Technologies in Higher Education. MZ Abdullayevna, AZ Siddiqovna, ZM Khabibovna, *Journal of Advanced Zoology*, 2023•[search.ebscohost.com](http://search.ebscohost.com)
5. DEVELOPMENT MECHANISMS OF DISTANCE EDUCATION IN THE DIGITAL WORLD MZ Abdullayevna, *Galaxy International Interdisciplinary Research Journal*, 2023•[giirj.com](http://giirj.com)
6. Problems of Ensuring the Continuity of the Subject" Compyuter Science and Information TECHNOLOGY" in the System of Continuing Education. Marasulova Zulayho Abdullaevna
6. Using Digital Technologies to Ensure the Integrity of the General Secondary Education System. Marasulova Zulayho Abdullayevna.