



THE IMPORTANCE OF DISTANCE LEARNING IN THE TEACHING OF "METHODS OF TEACHING MATHEMATICS"

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Article history:	Abstract:
Received: 13 th March 2021 Accepted: 30 th March 2021 Published: 10 th April 2021	This article provides information on the importance of distance learning in teaching the subject "Methods of teaching mathematics." In connection with the transition to a qualitatively new level of education, the nature of the educational process, in particular, the attitude to the content of pedagogical and student pedagogical activity and teaching activities has changed. Modern telecommunications in distance learning provide interactive learning. Students will be able to communicate quickly and the teacher will be able to respond quickly to students 'needs, monitor their work, and correct in a timely manner.

Keywords: Distance learning, Information technology, Distance technology, Professional skills, Technical means, Electronic textbook, Distance learning, Mathematics teaching methods, E-mail.

1. INTRODUCTION.

Distance learning is on the rise today. Because distance education has many advantages. Therefore, "Mathematics teaching methods are not only convenient for students to teach other subjects.

Advantages of distance learning:

- Opportunity for distance learning of foreigners, people with disabilities and people with various disabilities;
- Opportunity to study individually;
- -free access to student databases, library catalogs and other information resources;
- Convenience in conducting personal affairs of students;
- -interactivity (ability to exchange information quickly);
- -Ability to take the test in direct access mode.

Modern telecommunications in distance learning provide interactive learning. Students will be able to communicate quickly and the teacher will be able to respond quickly to students 'needs, monitor their work, and correct in a timely manner.

The use of distance technology encourages the teacher to continuously teach and self-develop as it includes:

- 1) search in various electronic catalogs, databases, information systems;
- 2) organizes, analyzes and selects the appropriate forms of presentation of data storage using modern multimedia technologies;
- 3) use the information obtained in solving specific creative and problem-solving tasks.

Distance education (Latin "distance" - distance use) The use of modern information and telecommunications technologies that allow "distance learning" without direct, personal contact between teacher and student According to him, the educational process is organized using new information technologies, multimedia systems. Ensuring the effectiveness of mastering the subject; such as developing cognitive abilities. Computer training is a special type of distance learning.

2. THE MAIN PART.

Distance learning is done in different ways. Each method consists of specific actions and serves to achieve a specific goal using different didactic tools. These include demonstrations, explanations, storytelling, conversations, exercises, problem-solving, and written work.

In distance education, the tasks of presenting the content of education, organizing and managing the student's learning activities are performed using the technical means used by the teacher and the student. It is known that one educational activity can be presented in the form of printed material, audio-video material. Distance learning tools include:

- electronic textbooks, manuals, reference books;
- educational and methodical materials in the field of computers;
- computer education systems in the form of traditional and multimedia products;
- audio, video educational information materials;
- distance electronic-information libraries, remote knowledge and databases, etc.

Forms of distance learning include text-based electronic lectures; video conferencing seminars; consultations using information technologies (e-mail, telephone, etc.); computer-based laboratory classes; independent work etc. can be used.

Different information and communication technologies are used in distance learning. For example, while traditional print-based teaching aids (textbooks, manuals) are based on introducing students to new material, interactive audio and video conferencing allows them to interact with each other over a period of time. It is designed to communicate and receive feedback, ie to send and receive messages. While pre-taped video lectures allow students to listen and watch lectures, facsimile communication, messages, and the rapid exchange of assignments over the network allow students to teach through feedback.

The main purpose of the introduction of distance learning technologies is to improve the quality and availability of education. Distance learning technologies increase the effectiveness of students' independent learning activities several times and allow them to receive quality education regardless of their physical ability to spend long enough in an educational institution.

According to the method of information delivery, case technology, network technology and distance learning TV technology are distinguished. The introduction of distance technology into the learning process usually begins with the use of work technology. The use of any technology requires the creation of appropriate information support and the development of ways and means of teaching and learning interaction.

Creating information support for the implementation of distance learning for future primary school teachers of mathematics and mathematics teaching methodology is a very important and responsible task. The complexity of providing such information is the fundamental openness of the pedagogical system, including methodological-mathematical, knowledge, their constant variability, the presence of different approaches and the presence of different applications of the same approach. As part of our research, we focused on developing materials for the main task system.

With the introduction of remote technologies, the student has the opportunity to interact with the teacher online and offline (forums, chats, e-mail, e-seminars, video conferences), which allows students to consult on issues in a timely manner. and quick access to information posted electronically or on the Internet. In order to organize a technically complete training on the basis of distance technologies, it is necessary to have a single local university network that connects departments, dean's office, library, computer classes connected to the Internet, and students connected too to the Internet.

With the transition to a qualitatively new level of education, the nature of the educational process, in particular, the attitude to the content of pedagogical and student pedagogical activity and teaching activities will change. The task of the teacher of mathematics and methods of teaching mathematics is to show the role of mathematical and methodological-mathematical training in the professional qualifications of primary school teachers, to establish a personal-oriented approach to educational activities. is to ensure that information and organizational materials are directed to implement the relevant methodological positions. The task of the student is to build his education completely independently. In such education, the teacher is not the one who teaches, but the one who helps to learn. The teacher's responsibilities may include providing counseling services, current and final assessments of knowledge, preparation of instructional kits that should be electronic, as well as repetition of some of the information on paper for the convenience of students.

Electronic teaching aids in science are being developed by university teachers. They should be built on a modular principle using information hypertext presentation and convenient navigation, as they provide quick access to the student currently interested.

Each student must provide a set of teaching materials in print (or electronically, including the curriculum of discipline, methodological recommendations, a textbook on discipline (in the absence - a textbook, to lecture course), seminar or practical manual, study guides and problems, test materials for self-control and final control. Reference in electronic form as additional literature publications, dictionaries, textbooks, periodicals, network and socio-political publications, as well as links to databases, sites, information systems, electronic dictionaries and network resources. On mathematics and mathematics teaching methods with full-time teaching, the independent work of students can be organized in accordance with the principles of distance learning.

In the system of distance learning of mathematics and mathematics teaching methods, the sources of information based on information and communication technologies are significantly expanding, as future primary school teachers are provided with curricula, test systems and databases for primary school. will have the opportunity

to meet. The use of distance technologies leads to an increase in the share of independent work in the organization of the educational process. In fact, students work independently with theoretical (lecture) materials, current and intermediate self-monitoring, students' research work, preparation for seminars or practical work, work with computer simulators and simulation models and so on with a full methodological support of academic discipline, the share of independent work can be more than two-thirds of a student's semester workload.

In the form of full-time or part-time teaching in mathematics and mathematics teaching methods, students are offered a list of e-mail addresses of sites and portals on these subjects, which they can use to search for information on the Internet. get acquainted with the content, structure, functions and services. When performing specific tasks in a computer class, future elementary school teachers should not only search for information by keywords, but also by attributes (e.g., topic area, material type, level of education, audience nature, etc.). They will also learn about effective ways to organize queries that include.

It should be noted that students who learn to communicate remotely and only in writing via email face certain difficulties as the teacher always sees and points out the mistakes that allow students to complete assignments to understand the origins of these errors. not able. Many of them are exacerbated by the low-level "Distance Learning" problems of computer literacy. In this regard, courses that increase this level are required in the early stages of the introduction of remote technologies.

In solving the above problems, an important role is played by the development of methodological recommendations for individual work of students on the study of a particular discipline, including issues and rules that require special attention and analysis of common mistakes made by other students. inaydi. As additional tools, forums and chat opportunities can be used to discuss and exchange ideas between students and teachers, including group and team work forms.

The systematic organization of teaching materials and teaching methods by primary school teachers using the opportunities of such technologies in the organization of independent work in the system of distance education or in the study of mathematical and methodological sciences plays an important role. In the first consultations, the teacher often has to work to introduce students to different effective ways of working with texts and sources of information. To do this, students or groups of students are given special tasks, during which they learn not only to learn independently, but also to communicate with the teacher, and other participants in the educational process use the Internet.

Various forms are used to monitor the success of the mastery of the discipline, including test systems, laboratory, practical and creative work, the results of which can be presented.

It is sent on special "personal" pages or by email of students in the distance education system. The test system allows the student to self-monitor in learning the discipline and to correct their level of knowledge (students are usually given three to six attempts when performing tests for self-control, the test result can be seen with correct and incorrect answer options).

The teacher may be on a computer test to assess the scientific performance of students in the independent study and completion of practical assignments on mathematics and mathematics teaching methods. Modern test tools allow it to develop its own test materials for current, intermediate and final control without spending a lot of time and effort. Based on the results of the study of each module, it is necessary to conduct a survey of students in order to determine the desire and feedback on the quality of the course remotely and to organize the learning process.

3.CONCLUSION.

Distance learning and the reasons for their use in the educational process today's demand is to reform the educational process in the education system, to develop teaching methods based on new information technologies, their widespread introduction. In this case, it is advisable to introduce a system of distance learning. At the same time, the traditional study of mathematics and mathematics teaching methodology, presented in an organized manner through lectures, seminars, and laboratory-practical classes, gives the student very few opportunities for such activities.

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