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ELECTRONIC AND DISTANCE LEARNING TECHNOLOGIES IN HIGHER EDUCATION

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ABSTRACT

The article discusses the basic concepts (electronic training, distance learning), types of information technologies that can be used in a professional educational organization and stages of development of electronic training, and distance learning technology. An analysis of software requirements for the organization of electronic training is carried out.

KEYWORDS

Informatization of education, e-learning, distance learning, e-learning technologies.

INTRODUCTION

One of the trends in the development of modern society is informatization, which becomes one of the main resources of scientific and technological progress and socio-economic development of the entire world community. Informatization significantly affects the development of science, technology, all sectors of human economic activity, plays a crucial role in the educational process - training and education, including at the stage of vocational education.

Informatization of the socio-economic and cultural sphere contributes to the implementation of

information technology in vocational education. Professional educational organizations are the task of forming students' ability to independently search for information, its creative processing, the ability to apply various types of information technology in solving educational, and later professional, problems. In this regard, a professional educational organization should form information competence among students, i.e. The ability to independently obtain information, use it in training and self-education. This is facilitated by electronic and distance learning technologies.

Electronic learning technologies have significant potential in solving educational, educational and developmental problems that the teacher set. The teacher must also have a high level of information competence in order to use the objectives of the lesson in accordance with the possibilities of information technology in solving the tasks. Therefore, a modern teacher should know what electronic learning technologies are, how they can be used in the educational process, what are the trends in the development of new information technologies in the vocational education system.

Despite the fact that electronic and distance learning are actively introduced into the vocational education system, there is still no single point of view in the scientific literature to determine these concepts. Different authors offer different approaches to understanding electronic training, used information technologies. In this regard, there is a need to study the essence of electronic training, the features and types of information technology.

Decree of the Government of the Republic of Uzbekistan (No. 559 dated 03.10.2022) approved the Regulation "On measures to introduce a distance learning in higher education organizations". The Regulation determines the procedure for organizing personnel training on the steps of undergraduate and graduate in higher education organizations through distance learning.

Recently, the concept of e-learning has become widespread in the world, meaning the learning process in electronic form, through the Internet. The term electronic training, or E-learning, was first used in a professional environment in October 1999 in Los Angeles at the CBT Systems seminar. Today, electronic and distance learning is actively introduced into the education system. Most modern educational organizations provide an opportunity to get education in certain areas of training remotely, through information technology.

The undoubted advantages of electronic training are the possibility of using and mastering various information technologies. The student joins electronic and remote educational technologies, studies through electronic educational resources, online courses, webinars, various electronic training services.

The advantage of electronic training is that there is no need to purchase textbooks and textbooks, methodological materials. Electronic textbooks and manuals can be saved and used repeatedly, updating the base of electronic training materials due to their reprint.

Electronic learning technologies are technologies related to telecommunications and aimed at integrating subjects into a single information space in order to obtain the maximum amount of information. Most often, the education uses separate software products - MS Word, Excel, Powrpoint and others that are not related to the category of special but accessible for pedagogical purposes. The electronic form of documentation is currently used. These are electronic journals, electronic documents, electronic

newspapers. The teacher must own the skills of paperwork, combinations of various types of data - text, images, calculations, diagrams, tables, graphs. Electronic documents can be transmitted through ICT, exchange with colleagues, parents, make adjustments and changes to them.

The transition from a traditional form of training to learning based on computer technology has occurred within two decades. Since the emergence of large archives located on machine -readable media, the idea has more and more often appeared to apply this material for learning purposes. To a greater extent, such a transition has become possible with the development of the global Internet, which made it possible to send any amount of data over long distances, to communicate freely with users of the network online, to post information on the Internet pages, thereby making it available to everyone.

The stages of development of electronic learning can be represented in the form of the following sequence:

1) courses on CDs;

2) distance learning;

3) E-learning technology

Each of the subsequent stages includes the technology of the previous one. The courses based on CD-Diski historically appeared the very first. Their main advantages were: the innovative idea, the presentation of thematic information on a machine - readable medium, a methodically competently organized training, interactive capabilities, convenience of use, accessibility. As disadvantages, it can be noted: the limited course, the complexity of the creation, the lack of the possibility of modification. The next stage - distance learning, representing a different educational approach, made it possible to eliminate

the above shortcomings and thereby brought a number of additional opportunities to electronic training. With distance learning, the basis of the educational process is a purposeful active independent work of the student, who has the opportunity to gain knowledge in a convenient place for himself, at an individual pace, with a set of special teaching aids with the possibility of contact with the teacher. Distance learning is characterized by the following positive moments: flexibility of the learning schedule, individual learning path that corresponds to its own needs and capabilities; objective methodology for evaluating knowledge, independent of the teacher; the possibility of obtaining advisory assistance to the teacher during training; Relative low cost.

Modern technologies also include means that allow me to carry out distance learning. This is the Internet that makes it possible for network and virtual communication through blogs, chats, social networks. These are also various forms of online bonds, network resources that can be used in work, various sites for the development of tests, polls. In conditions of distance learning, among the whole variety of platforms for online learning, it is necessary to choose the most convenient taking into account the specifics of your subject, determine the means of explanation of the new material, as well as for verification and control. You can use all available means: electronic textbooks, ready -made video tutorials, for example, on the YouTube, Webinar, Zoom platform.

The Moodle system is used to organize distance learning. Moodle is an instrumental environment for the development of both separate online courses and educational websites. The project is based on the theory of social constructivism and its use for training. In the system, you can create and store electronic educational materials and set the sequence of their

study. Due to the fact that access to Moodle is carried out via the Internet or other networks, students are not tied to a specific place and time, they can move through the material at their own pace from any part of the globe. The electronic format allows you to use not only the text as a "textbook", but also the interactive resources of any format. All materials of the course are stored in the system, they can be organized using shortcuts, tags and hypertext links.

Moodle is focused on joint work. The system provides for a lot of tools: wiki, glossary, blogs, forums, workshops. At the same time, training can be carried out both asynchronously, when each student studies the material at his own pace, and in real time, organizing online lectures and seminars. The system supports the exchange of files of any formats - both between the teacher and the student, and between the students themselves. Widespread opportunities for communication are one of the strengths of Moodle. In the forum, you can conduct discussion by groups, evaluate messages, attach files of any formats to them. In personal messages and comments - to discuss a specific problem with the teacher personally. In the chat, the discussion takes place in real time. The mailings quickly inform all the participants in the course or individual groups about current events: each student does not need to write about a new task, the group will receive notifications automatically. Moodle creates and stores the portfolio of each student: all the works, grades and comments on the teacher, messages in the forum. Allows you to control "attendance" - the activity of students, the time of their educational work on the network. As a result, the teacher spends his time more effectively. He can collect statistics on students: who downloaded what, what home buildings did, what grades received on the tests. Thus, to understand how much the students figured out the topic, and taking into account this,

propose material for further study. Moodle has solutions for all possible tasks of managing the educational process. If there is no finished solution yet or it is imperfect, the functionality of the system can be easily expanded.

In the educational process, you can also use various types of electronic tools - electronic textbooks, manuals, reference books, electronic visual means and visualization of the material, which improves the process of perception and memorization of information by students. The teacher can also develop electronic methodological manuals, various types of documentation that are used by students in electronic form, for example, a workbook on discipline for independent work, methodological recommendations for the implementation of abstracts and tests, an electronic textbook on the discipline, recommendations and links to Internet resources that can be used in the learning process.

Thus, electronic training in modern conditions is an integral part of the educational process. Electronic training is such a form of education in which the process of education itself occurs using telecommunication tools and technologies, the Internet and computers. Electronic training in a professional educational organization is implemented through various information technologies. The integrated use of electronic learning technologies makes it possible to increase cognitive activity, the formation of educational motivation, and the skills of working with information.

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