



## THE ROLE OF THE INTERNET IN THE STUDY OF INFORMATION TECHNOLOGY

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<p><b>Received:</b> September 17<sup>th</sup> 2021 <b>Accepted:</b> October 13<sup>th</sup> 2021 <b>Published:</b> November 25<sup>th</sup> 2021</p>	<p>The article shows the concept of information technology, the role of using information technology in increasing the effectiveness of teaching natural sciences. Methods of teaching the subject of information technology are considered.</p> <p>The dominant activity in the field of social production is the collection, production, processing, storage, transmission and use of information. The modern means of microprocessor and computer technology, as well as based on various means of exchange of information, the active use of the intellectual potential of society and its members in scientific, industrial and other activities, the development of all spheres of social production, the intellectualization of labor activity, the combination of information technologies with scientific, industrial, information high-level services, access to reliable sources of information for any member of society, visualization of the information provided, the importance of the information used and constantly updated information technology, attention is paid to the effective use of an intermediary in the training of medical personnel</p>
<p><b>Keywords:</b> Information technology, the effectiveness of teaching natural science, microprocessor, intellectual potential, new information technologies, information culture.</p>	

### INTRODUCTION

The Internet is a network of interconnected computer systems and various computer services. This network is a collection of various components such as email, newsgroups, FTP sites, and real-time chat. World Wide Web-World Wide Web (WWW) was born in 1992 year. It was created by Tim Berners-Lee, a representative of the Center for European Nuclear Research (CERN) in Geneva, Switzerland. Until October 1993, during the year there were more than 200 active web servers, and by June 1995 the total number of web servers exceeded 6.5 million. Currently, there are more than 30 million web servers.

The entire world network is the most well-known and well-known means of accessing the information resources of the Internet. In fact, it is a system of interconnected pages that reflects websites around the world. These pages contain links that appear in the highlighted text or graphic form. By clicking on such a link, you can go from one page to another, and most likely this new page will be located on the computer located on the far edge of the world.

### MATERIALS AND METHODS

Now the Internet is widely used by educational institutions. This is primarily to create access to the network for the self-education of students, izlash materials necessary for scientific work, qatnash participation in conferences. Also in universities there is usually an official website, where general information, a list of teachers, information for applicants, home pages of students, their e-mail boxes, etc. are placed.

To use the internet, you need a modem and a provider. A Modem is a device that transmits data by transferring digital signals from a computer to analog signals. That is, it simply converts bytes and bits to audio signalstiradi and then transmits them over a simple telephone line. When using a traditional modern modem, the speed of data transmission or reception can reach up to 56Kbit / s. This is a fairly low speed for data transmission. For comparison, the speed of reading from a floppy disk is approximately equal to 40 KB / SEC. At the same time, there are high-speed ISDN modems. ISDN means "Integrated Services Digital Network". ISDN modem transmits information without turning the computer's digital signals into analog and does not transmit them over a



simple telephone line, like a regular modem, but transmits digital signals using digital telephone lines. The advantage of such a connection is the high speed of data transmission - up to 128 Kbit / s.

The computer must have an Internet browser (Microsoft Internet Explorer or Netscape Communicator) installed. Services on the use of the WWW network are provided by the Internet provider. WWW is one of the Internet services. In order to create web pages and provide services for them, web servers, companies specializing in this will be created.

#### Domain names

Domain names are given to the computer by a special organization called InterNIC. These names are assigned according to a certain system to ensure the uniqueness of each name.

You can determine the type of organization that belongs to this domain by looking at the top-level domain that comes after the domain name of the computer. Com domain is the administration for commercial organizations, educational and scientific organizations, gov for government organizations, mil for military organizations, network for various network networks, for other organizations. There are also domains that indicate the country where this server is located. For example, uz - Uzbekistan, Belarus, ru - Russia, ua - Ukraine, pl - Poland and others.

Each document on the internet has its own unique URL address. The URL (Uniform Resource Locator), translated from English, refers to the same source locator. This is the key to the data location on the network. Please review the URL address: <http://www.fomalhautsoft.narod.ru/index.htm>. here http (HyperText Transfer Protocol) Hypertext Transfer Protocol. In this part of the address, the protocol for the transfer of documents is determined, in this case the document is transferred as a hypertext. At the same time, other protocols, such as ftp, gopher, are also possible. Later <http://www.fomalhautsoft.narod.ru/> comes-this is the name of the server. index.htm is the name of a file with an html or htm extension that displays the HTML language. HTML (Hyper Text Markup Language) is the language of hypertext markup language, the language of the Butunjahon Internet network. The HTML document differs from a simple text file by the presence of markup codes called tags.

Currently, almost all sites can be found web servers, hypertext documents repositories. And among them there are a huge number of FTP servers, these are real file repositories. A long time ago, a system was created that was able to manage the transfer of files from one computer to another. This system was

called FTP (File Transfer Protocol) Data Transfer Protocol.

#### Email

E-mail (E-mail) is the oldest service on the Internet. He began his life in the middle of the 70-ies. Its performance print is very simple: you connect to the computer system, write a letter and send it to the person to whom the computer is connected to another system. The message passes through the maze of interconnected computer systems until it reaches its destination. With the help of email programs, you can not only send text messages, but also attach files of another type - documents, tables, graphics, sound and video files.

In order to use the email, you need to get an email address. The email address Looks like this: user name @ domain name. The first part of the address is a name or nickname. The @ (It) sign is used to separate the user name from the domain name of the server. Today, there are hundreds of organizations that offer a free mailbox. you can attach to charts, graphics, sound and video files.

#### Conferences.

Teleconferences or newsgroups - this is an interactive "bulletin board" where everyone can post their messages in the News Group and respond to someone else's messages as well as open new discussions. There are more than 20 thousand different newsgroups on the internet, whose members condemn various issues. Using the newsgroup reader, the user "visits" the newsgroups and reads and sends messages. And through the server, users will have access to newsgroups.

At present, it is necessary to prepare the student not only as a carrier of information, but also as a person who is able to perceive it, analyze it and adapt to the realities in which he lives. In this regard, vocational education in higher institutions requires a new direction of the educational process, which is based on modern educational technologies, including information technology.

One of the leading trends in modern education is its transition to a higher technological level. This is expressed in the active introduction of information technology tools into the field of educational activity.

Information technology is understood as a process in which a collection of means and methods of data collection, processing and transmission is used to obtain new quality information about the state of an object, process or phenomenon. Information technology helps to constantly update the content, organizational forms and methods of teaching and learning. The use of computer to solve professional



problems is becoming an obligatory component of pedagogical activity.

The main purpose of information support is to reflect the waiting for professional and pedagogical activity, to provide all the potential information needs of the subjects of the educational process with the necessary information. The informatization of higher vocational education largely depends on the level of professional and pedagogical competence, the component of which is the information technology competence of high school teachers, their willingness to develop and use the methods and means of teaching in their professional activities. database of students, including information technology.

The purpose of our study was to analyze and characterize the educational and methodological provision developed on the basis of information technologies for the formation of the competence of the teacher of the Medical University in the field of professional and pedagogical activity. Educational-methodological provision is a set of educational tools that are micromodel of the educational system and are organically interrelated. On the basis of consistent accounting, it reflects the purpose, content and structure of education, the requirements for the organization of the learning process, the methods and means of teaching.

Educational and methodological provision developed on the basis of information technologies includes organizational forms of teaching to teachers (lectures: problematic, interrelated, with errors; practical and seminar sessions; creative independent work, Business games, interactive forms, pedagogical control, etc.), teaching methods (problematic izlash, project method, situational method, situational tasks, mental attack, discussion, web search, videoconferences, videos, etc.). These forms, methods and teaching aids are then used by the teachers in their professional and pedagogical activities at the Medical University. reflect the requirements for the organization of the educational process, the methods and means of teaching.

Telecommunication projects, if a comparative study of the effectiveness of the use of the same or different (alternative) methods of solving a single problem in the process of their implementation is justified pedagogically in order to determine what is most effective, acceptable for any situation. On the basis of Information Technologies "project teaching" general pedagogical method is actively used by the teachers of Medical University in the form of "live surgery" in professional pedagogical activity. For example, in one class there can be 500 people. In the

podium there is a real-time transmission of two operational urological departments to demonstrate operational operations. Two moderators (professors and urologists of Russia) work on the podium at the same time to interpret the course of the operation and to maintain constant contact with surgical teams working in the operating rooms. Within 2 working days (8.00-17.00), transactions are made up to 15 soles. Before each operation, the treating doctor will demonstrate the Anamnesis of the operated patient. The history of Medicine is discussed, questions are asked from the audience.

During the operation, the surgeon tells about the process of the operation, answers the questions of the audience. The role of moderators is to carry out intellektual communication between the audience and the operating rooms, to support the discussion about the options for operation techniques. In the future, in the process of professional and pedagogical activity, teachers recommend students to offer and substantiate the methods of treating a particular disease, etc. The method of teaching on the basis of design allows the teachers to develop questions of problematic, aspiring nature. For the implementation of the project, it is proposed to creatively develop a certain idea - practical (for example, to conduct training with students using certain methods) or creative (to develop proposals for improving the training courses of the medical profile).

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