



METHODOLOGICAL ASPECTS OF TEACHING INFORMATION AND COMMUNICATION TECHNOLOGY AT THE UNIVERSITIES

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Article history:	Abstract:
<p>Received: August 11th 2023 Accepted: September 10th 2023 Published: October 14th 2023</p>	<p>The article covers the issues of using information and communication and Internet technologies in improving educational processes and the concepts of researching the problem of education in formatting. In particular, the fact that information technologies allow to increase the activity of students, increase the professional level of the teacher and the level of interaction of the participants of the educational process, as well as the fact that the information and communication technologies tools used in modern education provides an opportunity to achieve high educational results. New technologies have been researched to ensure mutual cooperation between teacher and student in the open and distance education system.</p>
<p>Keywords: Information and communication technologies, computer, multimedia, multimedia presentation, internet, computer simulation model, motivation.</p>	

Modernization of the educational process in the higher education institutions of our republic, raising the quality level of the system of training pedagogues, developing the professional competence of future teachers, training them with modern professional knowledge, qualifications and skills related to the field, scientific and technical Development of the skills of independent, creative use of innovations and the ability to solve promising tasks is considered one of the important tasks. In particular, ensuring the interdependence, coherence and continuity of educational stages, introducing career-oriented technologies for organizing the educational process in higher education, developing career-oriented programs of sciences in this regard, and ensuring their quality, constantly improving the literacy of future teachers on the use of computers and the Internet determines the structure of the activities of higher educational institutions. [1]

Today, it is one of the most urgent tasks for the teaching staff to have a perfect knowledge of computer technologies and improve their skills in using information technologies. The purposes of using information technologies in higher education are diverse, but the main ones are to facilitate the work of pedagogues in every way and at the same time to provide practical support for raising the quality of teaching to a new level [2]. To strengthen the motivation of students to study, to arouse their interest in educational activities, to help them focus on the learning process, to achieve more effective and modern methods of teaching, to provide an individual approach to the student without time and other costs, making the educational process colorful and interesting, saving time for preparing lessons and monitoring learning results, etc. are the main advantages of using information technologies [3]. In addition, it should not be forgotten that one of the urgent tasks of today's teacher is to develop information literacy in students, teach them to use information technologies, and help them acquire a way of thinking suitable for the information society. The use of information and communication technologies (ICT) is important in any educational setting. Information technology is used in all types of lessons and at any time of the lesson, that is, it provides great opportunities for explaining new material, effectively presenting a new topic to students, identifying a problem, organizing students' independent work, and individual and collective work [4].

Information technology, or simply ICT, comes from the English language and refers to various technologies related to the management and processing of a huge flow of information using computer technology. The main features of information technologies are processing of information on a computer; storage of large amounts of data on machine tools; as well as the transmission of information to any distance in the shortest possible time. To date, the universal technical tool for processing any information is a computer that increases the intellectual capabilities of society [5]. A modern computer uses various means of communication, which are a necessary component of the process of informatization of society, and serve to transmit information. The processes of informatization of all forms of educational activity are closely related to the process of informatization of society. In such conditions, a modern type of teacher is being formed, who should not only have knowledge in the field of information and communication technologies, but also be able to apply them in their professional activities, and constantly seek to educate themselves [6].

The main ICT tool for the information environment of any educational system is a personal computer and the corresponding software that determines the capabilities of the personal computer. Presenting programs, word

processors, spreadsheets, database management systems, graphic packages, etc. are widely used in modern educational systems. Today, education has acquired a completely new quality due to the advent of computer networks and other ICT tools.

The multimedia presentation prepared for the lesson accompanies the teacher's speech, describes the content of the lesson with video and audio materials, pictures, diagrams. In the lesson, students will be able to search and select information, prepare creative tasks and create multimedia products. ICT makes it possible to carry out control and independent work in a modern way (interactive online tests, quizzes), as well as to quickly check the results and enter them into databases [7].

One of the processes in which ICT is most often used in the educational process is the creation of multimedia presentations. This is a lesson material live and visual way present of reaching the most simple and efficient methods is one Presentation the author as Both teachers and students participate they will In the first case, the presentation is prepared as a means of effectively presenting new material to the class, and in the second, as a form of creative independent work.

ICT, the following is necessary for the effective use of ICT in the teacher's daily practice, i.e. in the lesson:

a) Computer ng technology constant respectively improvement. Taking into account that technology and technological processes are rapidly developing, the teacher should be ready to keep up with the times, constantly study new ways of presenting information.

b) It is necessary to learn to effectively use the possibilities of ICT and use them in the application of teaching methods. One should not take aimless steps in using computer technologies. Effectiveness in teaching can be achieved if the motivation for using computer technology is prepared in a reasonable way.

s) The main thing is to understand that behind each situation of using ICT there is a certain educational task, and sometimes a pedagogical strategy. It is difficult to imagine everyday life without mobile phones and computers, which are regularly improved.

Working with didactic games and educational programs is a process that leads to positive results in lessons. It contributes to the gamification of the educational process, stimulates the motivation of students, allows to control and systematize the acquired knowledge in an interesting form for schoolchildren.

We can point to the use of Internet resources as another important element of the use of information technologies in teaching processes. It includes not only the search for up-to-date information, but also the rapid exchange of information. The Internet provides convenient platforms for students and teachers to work in groups outside the classroom. [8]

Obviously, the internet to a person - communication, distance education such as many p opportunities gives. But the Internet different different quality tons data throwable "big dump" with compare sh can. Such in the situation man known selection acquired skills to "filter" the data have to be need.

The world's information resources (electronic libraries, databases, file stores, etc.) can be quickly accessed through the Internet global computer network. on the Internet information and communication of technologies another means are also available - electronic mail, for example, online communication to do enable giving chat. That's it with together, each year sound and image quality, transferable and acceptance to be done files volume significant level increased is going Special equipment and software using internet network i through audio and video conferencing transfer can. Network ICT tools educational, methodical and scientific from the data wide use and research activities organize reach and modeling, real-time virtual learning training transfer enable gives. It's open and remote education system for video recording and television such as technologies important important have. Again one serious technology is on the Internet distributed or information in the means stored study electron publications. They are being studied of the material main part storage and transmission enable gives. They are individual work with the material deep mastery and to understand it will be possible. Study electron publications the material dynamic graph in the form to submit possibility gives. This is traditional knowledge source - from books give up to leave it means worth it not. For many, the process of "communication" with a book cannot be replaced by anything, even the most modern electronic publications. Due to the presence of personal computers and laptops with the appropriate software, multimedia projectors and special screens, interactive whiteboards, and the possibility of connecting to the Internet, the teaching process has taken on new forms and a special color in the classrooms. A modern teacher has access to electronic publications. Such publications are much cheaper, take up less space and create a mobile possibility. Computer technologies with modern characteristics, multimedia equipment help to master the theoretical material better.

Today, teachers and students have the opportunity to take a virtual tour of the world's galleries, use electronic archives, catalogs and library materials. Modern software tools of real objects the first level 3D models to create possibility gives. Therefore, a modern teacher should take into account the positive features of ICT, not only have knowledge in this field, but also apply them in his professional activity.

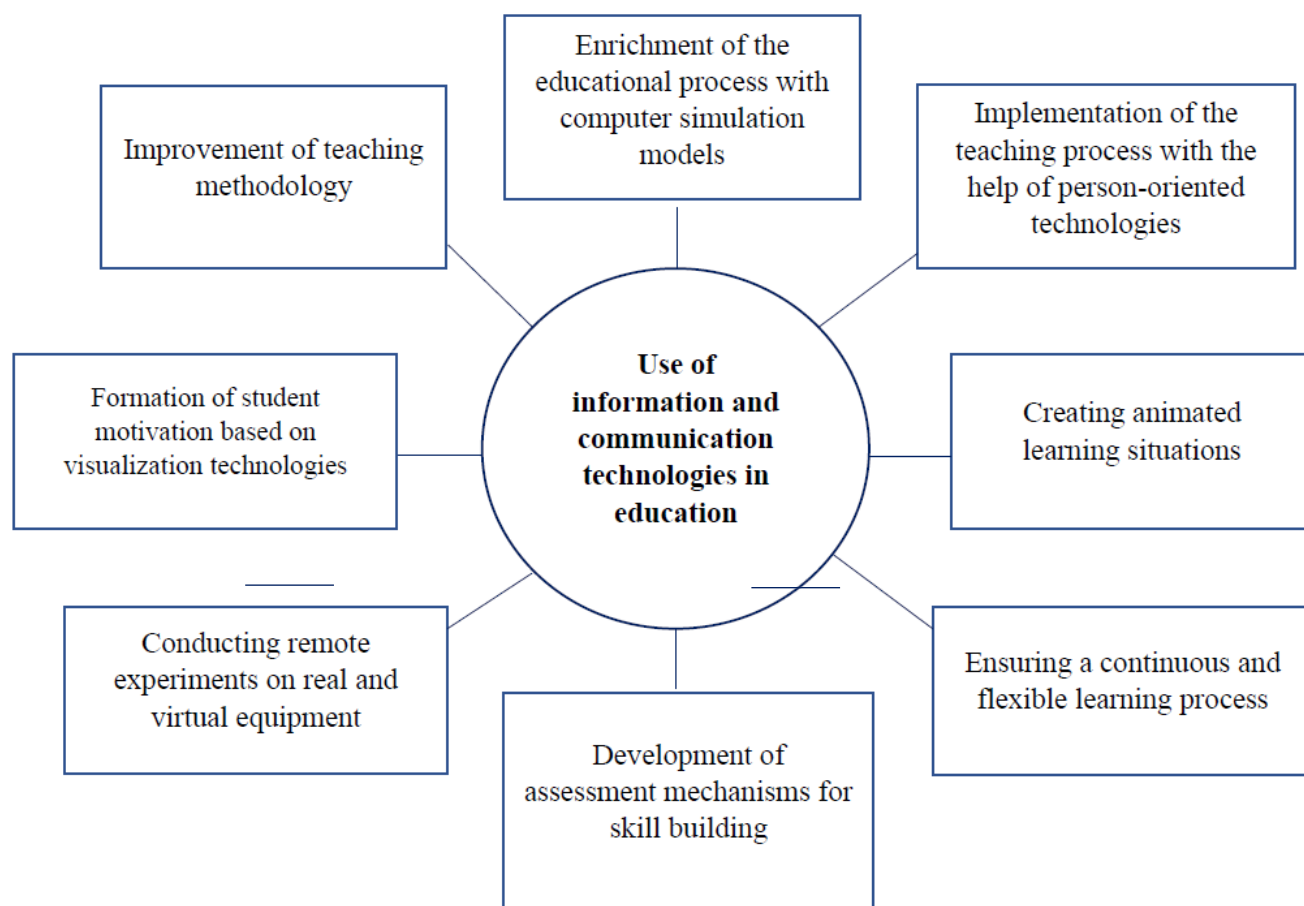


Figure 1. Possibilities of competent use of information and communication technologies

use of ICT tools in education a number of important didactic tasks are solved without the following (Figure 1):

- first of all, improvement of the methodology related to the teaching process;
- enriching the level of independent work of students, the effectiveness of their self-training with computer simulation models created on the basis of software tools;
- implementation of the process of teaching the student in the direction of research activities with the help of personal-oriented technologies;
- influencing the formation of the student's motivation to learn based on visualization technologies;
- providing a continuous and flexible educational process;
- the material repetition and strengthening create an opportunity for ;
- student _ the material game method mastering will receive various animations study situations create ;
- real and virtual equipment _ _ remote experiences transfer for _
- each different kind of information transmission , information choose and systematization according to skill and skills formation for develop evaluation mechanisms and others _ [9]

In conclusion, it can be said that the use of ICT makes it possible to increase the activity of students, to increase the professional level of the teacher, to diversify the forms of interpersonal communication, and to increase the level of interaction of the participants of the educational process. Also, ICT tools used in modern education allow to achieve high educational results. New technologies make it possible to ensure mutual cooperation between the teacher and the student in the open and distance education system.

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