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THEORETICAL FOUNDATIONS OF INFORMATION AND COMMUNICATION TECHNOLOGIES IN EDUCATION

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Abstract
This article cites the possibility of effective use of modern educational technologies by educators, including information and communication in the educational process, realizing the importance of the use of pedagogical technologies in educational activities. In this article, the aim is to increase the efficiency of modern information communications.

Keywords: Education, ICT, pedagogical Technology, Computer, Information Technology, Educational Institutions, interactivity, digital technology.

Аннотация:
В данной статье, осознавая важность использования педагогических технологий в образовательной деятельности, педагоги приводят возможности эффективного использования современных образовательных технологий, в том числе информационно-коммуникационных, в образовательном процессе. В данной статье изложена цель повышения эффективности современных информационно-коммуникационных систем.

Ключевые слова: образование, ИКТ, педагогические технологии, компьютерные, информационные технологии, образовательные учреждения, интерактивность, цифровые технологии.

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Introduction

Nowadays, determining the educational role of modern information and communication technologies and using modern educational technologies in practice are necessary conditions for the intellectual, creative and moral development of students. Practice this shows that education in institutions ICT of tools existence from himself / herself education in the process from them effective use example solution They should be filled with a specific meaning for both the teacher and the student, with the content of the subject. For the teacher, they are a means of increasing the effectiveness of pedagogical work, for the student, they are a means of increasing the effectiveness of his knowledge acquisition. We should start teaching information and communication technologies in mass form from the moment they start school, because during this period students quickly acquire skills.

It is necessary to work out and introduce special multimedia courses in the state language for the requirements of vocational schools and academic lyceums . It is necessary to form a class of programmers at the base of higher educational institutions, as well as at technological parks. In addition, it is necessary to conduct pilot projects at all stages of education and make the necessary decisions based on their results: Software products that need to be developed for the educational process should be fully financed by the state.

It is necessary to form a single database covering educational resources at the national level. It is necessary to constantly analyze the level of informatization of education in the regions of the republic and make the necessary decisions on its basis. World practice shows that information and communication technologies should be introduced into all levels and stages of the modern educational process. The main goal of introducing and using information and communication technologies in education is to create new opportunities for all participants in the educational process, that is, for learners and providers. The widespread

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introduction of information and communication technologies into the educational process provides the following:

1. Reduction of the time spent by students and professors searching for educational and scientific information:

2. Accelerate the change in the content of electronic educational literature based on the needs of the time:

additional time for students to engage in independent learning. World experience shows that the prospects for using information and communication technologies in the educational process include organizing interactive lectures based on multimedia technologies.

traditional lectures, interactive lectures allow students to actively participate in the learning process, where they can ask questions from different parts of the educational material and get specific answers. Principles of using modern ICT in the education system. Currently, highly qualified specialists in computer science and information and communication technologies are being trained in all educational institutions of our country, and if graduates of specialties such as biology also complete certain retraining courses in programming, their intellectual wealth can make a significant contribution to the development of our national economy by producing and selling software products. The production of the technical part of information and communication technologies in our republic requires attracting large investments, which is not feasible both in terms of time and economy. Therefore, we should focus our attention primarily on developing software products, first of all, to satisfy our domestic demand, and then to export. They quickly acquire skills from the moment they start learning information and communication technologies. World practice shows that information and communication technologies should be included in all levels and stages of the modern educational process.

The main goal of introducing and using information and communication technologies in education is to create new opportunities for all participants in the

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educational process, that is, for learners and providers. A number of distance learning courses have been established and are successfully operating under the current "Iste'dod" Foundation of the President of the Republic of Uzbekistan. A number of practical works are also being carried out to create electronic educational literature that forms the educational and methodological basis of distance education. Currently, electronic textbooks and manuals, automated testing systems, virtual stands, multimedia systems have been developed and are widely used in the educational process.

Conclusion, it can be noted that the management system of higher and secondary educational institutions should include all areas using modern information and communication technologies. I would like to emphasize that the activity of the pedagogical team, which ensures the systematic use of modern educational technologies in the process of education and upbringing, is one of the main factors serving to form scientific research and communicativeness. It is a motivation for active cognitive activity, creative and organizational skills, and active cognitive activity among students. The work carried out by teachers of educational institutions on the use of information and communication resources is aimed at achieving an average level of computer literacy of the majority of students. In this regard, it is necessary to take into account the individual abilities and interests of the student. Students of educational institutions who have increased interest in information technologies and developed the ability to master them can realize their potential through the system of additional education and extracurricular activities. Such students, as a rule, achieve a high level of computer literacy and effectively participate in conferences, competitions, olympiads and festivals on ICT of various levels, develop their own computer programs and projects. Currently, in the era of computer networks, the characteristics of the creation and distribution of new technologies are changing, and this is happening in the following directions: firstly, skills are more important than ever in the modern global market, which is characterized by high competition. The transfer and

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distribution of technologies is a very complex process. Secondly, the development of new global norms that reflect the recognition of the value of technologies is also becoming of great importance. New rules, adopted by almost all countries, are strengthening intellectual property protection regimes everywhere.

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