Research Article

DEVELOPMENT AND PROSPECTS OF VIRTUAL EDUCATION TECHNOLOGIES

Ikboljon A. Ovhunov
Head of the Department of Informatics Teaching Methods, Andijan State University, Uzbekistan

ABSTRACT

This article describes virtual learning technologies, multimedia concepts and tools, multimedia applications, the use of simulators in the learning process. The problems of using systems and services that control the process of virtual learning are also described.

KEYWORDS

Virtual education, multimedia, software, educational technologies.

INTRODUCTION

The use of existing hypertext, hypermedia, video, graphics, animation, sound and other web programs in the implementation of modern information and communication technologies in the education system is very effective. When analyzing the accumulated experience, information and communication technology software tools have a wide range of opportunities to speed up the learning process as a new indicator of quality in learning, which is fundamentally different from traditional learning tools. In the learning process based on educational resources, students will have the opportunity to fully

teach specific subjects based on computer technology, edit lecture texts, analyze the results of control presented by students, learn, listen and reflect through educational resources.

One of the promising directions for the introduction of modern information technologies in education is computer modeling of events and processes. Computer models can be synchronized with the content of a traditional lesson and help the teacher to display many effects on the computer screen, organizing new, non-traditional learning activities for students.

THE MAIN FINDINGS AND RESULTS

The aim of the study is the use of multimedia tools and technologies in higher education, the use of virtual reality technologies (virtual laboratories, simulators, virtual travel, etc.) in the learning process, mobile learning technologies, the Internet and social networks, their capabilities and security and open learning resources and their opportunities, improve their knowledge about.

Information and communication technologies actively influence the process of teaching and educating students and trainees, as they change the scheme of knowledge transfer and teaching methods. The introduction of information and communication technologies not only affects educational technologies, but also introduces new ones into the process. They are associated with the use of computers and telecommunications, special devices, software and hardware, information processing systems.

It is known that the use of information and communication technologies in education is of great importance in improving the quality of education,

training highly qualified personnel. Because the use of IKT in education serves to improve the quality of education. In particular, remote lecturing by qualified teachers to a large number of students, achieving a unified approach to teaching one subject in an educational institution, preventing a shortage of laboratory classrooms through the use of virtual laboratories, ensuring a transparent presentation of achievements and shortcomings by students; access to electronic educational resources, ease of providing educational products in animation, graphics, audio, video form.

To date, monitoring the educational process in educational institutions shows that the use of information and communication technologies is accompanied by rapid development in this area. This is due to the fact that the material and technical base of some educational institutions meets the requirements, educational institutions have the ability to connect to modern communication systems, and educational institutions have established the effective use of these opportunities. In most cases, in educational institutions, along with the preparation of presentations for the educational process of professors and teachers, the possibilities of information and communication tools are used in every possible way.

Based on the foregoing, today we can distinguish a number of advantages of using information and communication technologies in the educational process:

- Preparation of the presentation of educational material using various platforms and programs;
- Use of electronic textbooks, encyclopedias;
- Modeling of processes and events;
- Provision of distance learning;
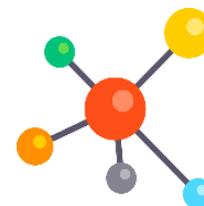
- Conducting interactive educational teleconferences;
- Use of knowledge testing and control programs;
- Use of software services of the publishing system;
- Availability of database management systems, etc

It should be noted that the effective use of multimedia in the educational process:

- Encourage students to study;
- Revitalize the learning process;
- Develop the ability to independently master educational material;
- Increasing learning efficiency through personalization is approaching.

The use of computer tools in the educational process has led to the creation of information and educational technologies of a new generation, improving the quality of education, creating new tools for influencing, effective interaction between the teacher and the student. According to experts, new information technologies of education based on computer tools make it possible to adequately increase the effectiveness of education.

CONCLUSION

International recognition that the use of computers in education is an effective approach to creating an open educational environment and the right to education is sufficient for its widespread introduction into the pedagogical and methodological foundations of types of education.

REFERENCES

1. Okhunov I.A, Rakhmonov O.M, Aliyeva G.A//Improving pedagogical conditions for developing a responsible attitude to virtual learning in future teachers// PSYCHOLOGY AND EDUCATION (2021) 58(1): 4035-4041.

2. Антонова Светлана Анатольевна. Статья: «Ответственность учителя», опубликовано 25.01.2015. [Электронный ресурс]. Режим доступа: https://nsportal.ru/ (дата обращения: 29.10.2020).

3. Ovkhunov I.A. Responsible attitude towards virtual teaching in future pedagogues. European Journal of Research and Reflection in Educational Sciences Vol. 8 No. 12, 2020.

4. Сухобская Г.С., Горбунова Л.Л. Взаимосвязь теории и практики процессеподготовки и повышения квалификации педагогических кадров. – М.: НИИ ИОО АПН,1990. –С. 92.