THE ROLE AND IMPORTANCE OF VIRTUAL EDUCATION IN THE MODERN EDUCATION SYSTEM.

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Abstract: This article provides brief information about virtual technology and analyzes its special importance in the educational process. At a time when the world is increasingly moving to online cooperation, it is very important to teach students to work effectively in virtual teams. The article is about the virtual world that has entered human life in the age of technological progress, its impact on society, the negative vices that it has brought to the minds of adolescents, and the prospects for its elimination.

Keywords: Virtual education, digital resources, higher education, pedagogy, teamwork skills, online cooperation, distance learning, interactive technologies, creativity, innovative thinking.

Аннотация: Бул макалада виртуалдык технология жөнүндө кыскача маалымат берилип, анын билим берүү процессиндеги өзгөчө мааниси талданат. Дүйнө онлайн кызматташууга барган сайын бара жаткан учурда, студенттерди виртуалдык командаларда натыйжалуу иштөөгө үйрөтүү абдан маанилүү. Макалада технологиялык прогресс доорунда адам жашоосуна кирген виртуалдык дүйнө, анын коомго тийгизген таасири, өспүрүмдөрдүн аң-сезимине алып келген терс көрүнүштөр жана аны жоюунун келечеги тууралуу сөз барат.

Ачкыч сөздөр: Виртуалдык окутуу, санариптик ресурстар, жогорку билим берүү, педагогика, командада иштөө көндүмдөрү, онлайн кызматташуу, аралыктан окутуу интерактивдүү технологиялар, креативдүүлүк, инновациялык ой жүгүртүү.

Аннотация: В статье дается краткая информация о виртуальных технологиях и анализируется их особое значение в образовательном процессе. В условиях, когда мир всё больше переходит к онлайн-сотрудничеству, крайне

важно научить учащихся эффективно работать в виртуальных командах. В статье рассматривается виртуальный мир, вошедший в жизнь человека в эпоху технического прогресса, его влияние на общество, негативные последствия для сознания подростков и перспективы его устранения.

Ключевые слова: Виртуальное образование, цифровые ресурсы, высшее образование, педагогика, навыки командной работы, онлайн-сотрудничество, дистанционное обучение, интерактивные технологии, креативность, инновационное мышление.

INTRODUCTION

In today's digital age, information technologies are deeply penetrating every sphere of social life, in particular, the education system. As a result of this process, the concept of virtual (online) education has become widespread worldwide. Especially during the COVID-19 pandemic, this form of education has proven itself in practice as an alternative to traditional teaching methods.

Virtual education is a process of learning and imparting knowledge through Internet technologies. In it, teachers and students can effectively communicate and complete assignments without being in the same place.

DISCUSSION AND RESULTS

Nowadays, the effective use of digital technologies also contributes to the development of education. For example, there is convincing evidence that the use of digital resources can increase the speed and depth of learning of students and learners. There is evidence that the same can be said for some aspects of literacy, in particular, writing and comprehension. Digital technologies appear to be a key tool for improving basic literacy and numeracy skills, especially in elementary settings. Impact measures are typically similar to other educational interventions that are effective in increasing achievement, but the use of digital learning has other advantages. Also, the level of impact may decrease with the level of ability of young people to effectively use digital learning tools and resources to achieve learning outcomes. Using digital learning more effectively to increase achievement involves identifying how young people can use

digital tools and resources to achieve learning outcomes and adapting their approaches, as well as gaining knowledge and understanding of technology. This applies to all educational settings. When students use digital technologies for formal and informal learning activities at home and at university, it has a positive impact on their achievement because they have extended their learning time.

In the current era of globalization, information dissemination has finally taken on a modern form. The rapid development of information technologies has radically changed the life of society. The digital age has brought significant changes in the way we work and learn. If we look back at the previous era, the most favorite and interesting activities of our young people were listening to music and watching TV shows, now the favorite activities of our young people are computers and the Internet.

Today, you will be amazed by the educational institutions established in our country in all areas of higher education and vocational training, and the conditions created for young people to study and learn. We know that the Internet, which has become an integral part of our lives, is widely used by all our young people. I consider the development of a culture of using the Internet among students to be one of the most global problems of our time. Of course, we need to use the Internet. Today, it is considered the need of the hour, the need of the era, but first of all, we need to form its correct and appropriate use. Through the Internet, you can get all kinds of additional information, search for necessary literature, learn a language, and be informed about new news in a timely manner.

One of the great scholars said, "Life is made up of moments. Whoever wastes his time, wastes his life." Therefore, our most important task today is to educate the growing younger generation based on our national values, to instill in them a sense of love and loyalty to their people and homeland, and to protect them from all kinds of attacks of mass culture and provide them with appropriate protection. Today, Internet users can be conditionally divided into two categories. While the first category is those who use the Internet for professional reasons or to obtain information and knowledge necessary for scientific research, the second category is those who simply use it out of

curiosity, such as visiting dating sites or playing online games. The Internet is the only public computer network in demand today, providing us with open, simple and accessible information about all areas of uncertainty, or rather, about concepts that are beyond our comprehension. Naturally, today the number of people who need this factor is increasing day by day. This network is a global network on a worldwide scale. Although the text, image and voice services, and a number of other features that inform about the latest news are bringing great convenience to all areas, on the other hand, they are also attracting humanity to the virtual world. Teenagers are especially affected by this influence. In this regard, the words of experts prove the following results: the positive aspects of the Internet are the convenience of each side in obtaining important and clear evidence related to a person's science, field, and activity, and the saving of a considerable amount of time. However, it is obvious that there is an excessive amount of information in Internet information for reasons of curiosity.

The influence of information technologies is especially important in the lives of young people today. The idea that active computerization as a means of transmitting educational information helps to improve the traditional educational process does not correspond to the capabilities of modern information technologies.

The virtual educational process is one of the forms of education that can be implemented in the usual interaction of teachers, students and objects being studied. The information content aspect of education: knowledge - skills - experience connects the didactic components of the biocomputer and virtual models interacting according to the scheme; awareness - understanding - concretization - application. The virtual educational model, as the main component, provides for the transfer of information in a special educational information environment (virtual).

The use of virtual technologies requires thorough preparation: software, plans, training manuals for program management, manuals, individualization of instructions, special training for teachers.

The role and importance of virtual education in the education system of students is incomparable.

1. Opportunities for virtual education

Virtual education offers the following advantages based on modern technologies:

 Distance learning: You can study from anywhere, regardless of geographical location.

 Flexibility: Each student attends classes at a convenient time for him.

 Wide access to digital resources: Textbooks, video lessons, tests and other educational materials are quickly and easily found.

 Interactivity: Interactive methods such as tests, questionnaires, quizzes can be used on online platforms.

Teachers and students in higher education institutions are widely and effectively using these opportunities, the importance of virtual educational technologies in the educational process is very great. We will consider virtual educational technologies below.

Main types of virtual learning technologies

Learning platforms (LMS – Learning Management Systems) These technologies allow you to plan, conduct, evaluate and monitor the learning process. The most popular platforms are:

• Moodle

• Google Classroom

• Canvas

• Blackboard

• Edmodo

• Microsoft Teams for Education

They are used to:

• send assignments,

• plan lessons,

• communicate in forums,

• organize exams and tests.

Videoconferencing technologies

Used for remote real-time communication. The teacher and students attend the lesson at the same time. Popular tools:

• Zoom

• Google Meet

• Skype

• Cisco WebEx

• BigBlueButton

These technologies are used to conduct lectures, seminars, and webinars.

Artificial intelligence (AI)-based technologies

• AI is being used to implement individual learning paths, automatic assessment, and intelligent assistants (chatbots).

• Systems that analyze student achievements and difficulties are also being used (for example, Khan Academy, Duolingo).

Virtual and augmented reality (VR / AR)

• In the natural sciences, medicine or engineering, classes are held through virtual laboratories, simulators, interactive experiments.

• For example: Google Expeditions, Labster, Merge EDU

Mobile educational technologies

• Applications that allow you to take lessons, complete tasks, watch video lessons via phones: Coursera, Udemy, Khan Academy, Duolingo, Telegram bots, etc.

2. Virtual technologies used in the education system of Uzbekistan

• Edu.uz, ziyonet.uz, kundalin.com are national platforms.

• Universities and schools are using systems such as Zoom, Moodle and Google Classroom.

• Digital educational resources (for example, video lessons, electronic textbooks) are being widely introduced in educational institutions.

3. Problems of virtual education

At the same time, along with the advantages of virtual education, there are also problems:

Technical problems: Low internet speed, lack of devices.

• Pedagogical problems: Some teachers lack digital skills.

• Lack of motivation: Students may have low interest in independent learning.

CONCLUSION

Virtual educational technologies have become an integral part of the education system today. They are an important tool for ensuring the continuity of education not only during the pandemic, but also in modern society. However, for their effective use, it is necessary to increase the technological literacy of teachers and students, improve infrastructure, and adapt curricula.

Interactive technologies in education further revitalize the learning process, students have the opportunity to exchange their knowledge and gain experience. These technologies also provide teachers with effective tools to improve student success.

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