EVALUATING THE EFFECTIVENESS OF ONLINE EDUCATION : STRENGTHS AND WEAKNESSES

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Annotatsiya: *Mazkur annotatsiyada onlayn ta'limning afzalliklari va kamchiliklari tahlil qilinadi. Onlayn ta'lim zamonaviy axborot-kommunikatsiya texnologiyalari asosida tashkil etilib, ta'lim oluvchilarga vaqt va makon jihatidan erkinlik, mustaqil ta'lim olish imkoniyati hamda turli elektron resurslardan samarali foydalanish imkonini beradi. Shuningdek, masofaviy ta'lim xarajatlarni kamaytirishi va ta'lim jarayonini individuallashtirishga xizmat qilishi bilan ahamiyatlidir. Biroq onlayn ta'lim jarayonida jonli muloqotning yetishmasligi, texnik muammolar, internet tezligi va sifati bilan bog'liq qiyinchiliklar, shuningdek, ta'lim oluvchilarning o'zini-o'zi nazorat qilish darajasi past bo'lsa, o'qish samaradorligining kamayishi kabi kamchiliklar ham uchraydi. Annotatsiyada ushbu jihatlar ilmiy-nazariy asosda yoritilib, onlayn ta'limni yanada samarali tashkil etish masalalariga e'tibor qaratiladi.*

Аннотация: *В данной аннотации анализируются преимущества и недостатки онлайн-обучения. Онлайн-обучение организовано на основе современных информационно-коммуникационных технологий и предоставляет учащимся свободу в плане времени и места, возможность самостоятельного обучения, а также эффективное использование различных электронных ресурсов. Кроме того, дистанционное обучение способствует снижению расходов и помогает индивидуализировать образовательный процесс. Однако в процессе онлайн-обучения встречаются такие недостатки, как отсутствие живого общения, технические проблемы, трудности, связанные с качеством и скоростью интернета, а также снижение эффективности обучения, если уровень самоконтроля учащихся низок. В аннотации эти аспекты рассматриваются с научно-теоретической точки зрения, и уделяется внимание вопросам повышения эффективности онлайн-образования.*

Abstract: *This annotation analyzes the advantages and disadvantages of online education. Online learning, organized based on modern information and communication technologies, provides learners with flexibility in terms of time and location, opportunities for independent study, and effective use of various digital resources. In addition, distance education helps reduce costs and supports the individualization of the*

learning process. However, online education also has certain drawbacks, such as the lack of face-to-face interaction, technical issues, difficulties related to internet speed and quality, and a decrease in learning effectiveness when learners have low levels of self-discipline. The annotation examines these aspects from a scientific and theoretical perspective and emphasizes the importance of improving the effectiveness of online education,

Kalit so'zlar/ ключевые слова/ Keywords

onlayn ta'lim, masofaviy ta'lim, elektron ta'lim, raqamli texnologiyalar, ta'lim platformalari, ta'lim samaradorligi, moslashuvchanlik, texnologik ko'nikmalar, raqamli savodxonlik, ta'lim infratuzilmasi, o'zini o'zi boshqarib o'qish, onlayn o'qitish metodlari, COVID-19 pandemiyasi, zamonaviy ta'lim tizimi.

онлайн-образование, дистанционное обучение, электронное обучение, цифровые технологии, образовательные платформы, эффективность обучения, гибкость обучения, технологические навыки, цифровая грамотность, образовательная инфраструктура, саморегулируемое обучение, методы онлайн-преподавания, пандемия COVID-19, современная система образования.

Online education, distance learning, e-learning, digital technologies, educational platforms, learning effectiveness, flexibility, technological skills, digital literacy, educational infrastructure, self-regulated learning, online teaching methods, COVID-19 impact on education, modern education systems.

Introduction

The development of modern technologies is deeply penetrating almost all spheres of social life. In particular, in recent years, online or distance learning has become increasingly important in the education system. Initially introduced experimentally, this system was widely applied during the pandemic and continues to be implemented at various levels today. Online education means that the teacher and the student participate in the learning process via the internet without being physically present in the same location. This article highlights the advantages and disadvantages of online education.

Discussion and analysis

In recent years, online education has become an integral part of education systems worldwide. This trend became especially evident during the COVID-19 pandemic. During this period, educational institutions were forced to abandon traditional forms of education and transition to distance and online learning. This, in turn, increased the significance of digital technologies in the education sector and led to the emergence of new methodologies.

Advantages of online education

1. No geographical limitations.

Online education provides the opportunity to learn anywhere and at any time. This is especially important for young people living in remote areas, ensuring their right to quality education. It is possible to connect with any university or teacher in the world.

For example, through platforms like Coursera, edX, and Udemy, students from Uzbekistan can complete courses offered by foreign higher education institutions.

2. Flexibility and independent learning.

Students can review lessons at their own time, revisit them, and learn at their own pace. This helps develop an individual learning style and encourages independent thinking.

3. Wide range of resources.

Video lessons, tests, articles, e-books, and interactive simulations available online enrich the learning process. Unlike traditional education, this diversifies

Convenience in terms of time

You can choose online courses according to your schedule. You can study anytime and anywhere. Almost all educational online platforms work on mobile devices. You can attend a lecture in comfortable clothes, with a cup of coffee in hand. There is no need to spend time commuting. Such small conveniences help prevent unnecessary stress. The time and energy saved can be spent on other useful and interesting activities.

No compromise in quality

According to research, online education is not inferior to traditional education in terms of quality on many indicators. Seventy-seven percent of teachers at American universities consider online education to be of equal quality to traditional education, and sometimes even superior. The effectiveness of a course largely depends on the learner: distance learning requires more discipline and self-regulation.

Various convenient tools—such as presentations, tests, videos, chats, screen sharing, and the ability to review lessons multiple times—ensure high learning effectiveness. Online education organizers can invite teachers and professionals from different cities and countries to deliver lectures or practical classes. This enhances both the quality of education and the prestige of the diploma.

Equality

One of the advantages of distance learning is the absence of discrimination among students based on race, religion, gender, nationality, age, clothing, or appearance. All participants can take part equally. There are no students who dominate the discussion and prevent others from speaking. Online classes are especially suitable for introverted students and those who need more time to understand the material.

Development of Technological Skills

Working on online platforms, using digital tools, and communicating in a virtual environment have helped develop important technological skills.

Disadvantages of online education

Insufficient Technological Infrastructure

In remote areas, low internet speed and a lack of computers or tablets have posed serious challenges to the effective implementation of online education.

Difficulty in Self-Regulation

For students with low discipline and self-management skills, online learning may result in lower effectiveness.

Pedagogical Challenges

For many teachers, conducting lessons in an online format was a new experience, making the adaptation period difficult.

Example of Uzbekistan:

The Republic of Uzbekistan is also taking important steps to develop digital education. Based on the "Digital Uzbekistan–2030" strategy, distance learning platforms (such as edu.uz, ziyo.net) are actively operating. Online lessons, electronic journals, and testing systems have been implemented in higher education institutions and schools. However, factors such as differences in existing infrastructure and technological readiness, as well as the digital literacy level of teachers, affect the overall effectiveness of online education.

Example from Other Countries:

Many countries around the world have actively developed digital education systems. For instance, in the United States, platforms such as Coursera, edX, and Khan Academy provide access to online courses from top universities. Similarly, in European countries like Germany, France, and the United Kingdom, schools and universities have widely implemented online lessons, electronic grading systems, and digital testing tools. However, differences in internet accessibility, availability of devices, and teachers' digital literacy continue to affect the effectiveness of online education in various regions.

Conclusion

As can be seen from the above analysis and discussion, online education is becoming an integral part of the modern education system. Its advantages—flexibility, a wide range of resources, and the opportunity to develop technological skills—are considered highly important in today's digital society. Although certain achievements have been made in the field of online education in Uzbekistan, it cannot yet be considered a fully developed and stable system. Improving infrastructure, enhancing teachers' digital literacy, and creating high-quality educational content remain among the top priorities.

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