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VIRTUAL UNIVERSITIES: A DIGITAL ALTERNATIVE TO THE TRADITIONAL EDUCATION PARADIGM

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Annotatsiya: Mazkur maqolada virtual universitet modellari va ularning zamonaviy oliy ta'lim paradigmasiga ko'rsatayotgan ta'siri tahlil qilinadi. Raqamli texnologiyalar ta'lim tizimini tubdan o'zgartirayotgan hozirgi davrda, virtual universitetlar sifatli, moslashuvchan va global ta'lim imkoniyatlarini yaratmoqda. Maqolada virtual universitetlarning shakllanishi, ularning afzallik va kamchiliklari, shuningdek, an'anaviy ta'limdan farqli jihatlari ilmiy-nazariy asosda yoritiladi. Shuningdek, maqolada O'zbekiston ta'lim tizimiga virtual universitet modellarini joriy etish istiqbollari ham ko'rib chiqiladi. Tadqiqot natijalari virtual ta'limni samarali tashkil etish va uni oliy ta'lim paradigmasiga integratsiyalash borasida amaliy tavsiyalarni o'z ichiga oladi.

Kalit soʻzlar: virtual universitet, raqamli ta'lim, oliy ta'lim paradigmasi, ta'lim innovatsiyalari, raqamli transformatsiya, onlayn ta'lim modellari, ta'limda axborot texnologiyalari

Abstract: This article analyzes virtual university models and their impact on the modern higher education paradigm. In the current era, when digital technologies are radically changing the education system, virtual universities are creating opportunities for high-quality, flexible and global education. The article discusses the formation of virtual universities, their advantages and disadvantages, as well as their differences from traditional education on a scientific and theoretical basis. The article also considers the prospects for introducing virtual university models into the education system of Uzbekistan. The results of the study include practical recommendations for the effective organization of virtual education and its integration into the higher education paradigm.

Keywords: virtual university, digital education, higher education paradigm, educational innovations, digital transformation, online education models, information technologies in education

Аннотация: В статье анализируются модели виртуальных университетов и их влияние на современную парадигму высшего образования. В эпоху, когда цифровые технологии кардинально преобразуют систему образования, виртуальные университеты создают высококачественные, гибкие и глобальные образовательные возможности. В статье рассматривается становление виртуальных университетов, их преимущества и недостатки, а также их отличия от традиционного образования на научно-теоретической основе. В статье также рассматриваются перспективы внедрения моделей виртуальных университетов в систему образования Узбекистана. Результаты исследования включают практические рекомендации по эффективной организации виртуального образования и его интеграции в парадигму высшего образования.

Ключевые слова: виртуальный университет, цифровое образование, парадигма высшего образования, образовательные инновации, цифровая трансформация, модели онлайнобразования, информационные технологии в образовании

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Introduction

The rapid development of digital technologies in modern society is causing fundamental changes in all areas. In particular, the higher education system is not left out of this transformation. Traditional university models are increasingly giving way to digital education formats, which creates the basis for the formation of the concept of virtual universities. Virtual universities are not only a form of organizing distance learning, but also a complex system that combines a new pedagogical approach, infrastructure and management mechanisms. This article analyzes the essence of virtual university models, their impact on the higher education paradigm and practical possibilities. At the same time, it highlights the advantages, existing problems and prospects for adapting virtual education to the education system of Uzbekistan. The study is based on modern global trends and innovative approaches to education.

Methodology

The digital transformation taking place in modern higher education is fundamentally changing the content, form and technological foundations of education. In this process, the concept of virtual universities deserves special attention. A virtual university is an educational organization that widely uses distance and online forms of education, is based on digital infrastructure, does not have its own physical premises or operates in a limited manner. They develop, deliver and manage educational programs based on modern information and communication technologies (ICT). The first virtual universities began to form in the USA and European countries at the end of the 20th century. The reasons for this are the popularization of education, technological development and the impact of global crises such as pandemics. Especially during the COVID-19 pandemic, virtual universities were seen as an alternative to classical higher education institutions, and their role has increased dramatically.

Virtual university models and their types

Virtual universities are divided into several models:

- A) Fully virtual universities operate only online (for example, University of the People).
- B) Hybrid (mixed) universities combine traditional and virtual education.
- C) Platform-based universities combine content from multiple universities through platforms such as Coursera, edX, and Udacity.

Results

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Each model requires its own didactic approach, technological basis and management system. Their advantages are education without geographical boundaries, flexible graphics, individual approach, availability of resources in digital form and the possibility of wide use of artificial intelligence and analytical tools in the educational process. Developed countries have created 3D constructive national virtual university platforms in this regard. For example, Russia, America, Britain, Germany and Finland have created national virtual university platforms. Currently, projects on geometric modeling of a generalized national system of a virtual university in information technologies based on 3D technologies have not been implemented in the republic¹

¹ Nuraliyev. F. M, Delov, D,E and Ubbiyev. A.T (2022). ANALYSIS OF VIRTUAL EDUCATIONAL ENVIRONMENT (SYSTEM) AND ITS IMPLEMENTATION IN EDUCATION. Modern Education. 6: 34-40 DOI: 10.34920/SO/VOL 2022 ISSUE 6 5

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Virtual universities are distinguished by the following advantages in the modern higher education system:

- a) Wide range of educational opportunities the ability to receive education from anywhere in the world.
- b) Resource saving the need for transportation, accommodation and infrastructure is reduced.
- c) Personalized learning the student can learn at his own pace.
- d) Rapid updating there is an opportunity to constantly update educational content in line with the needs of the time.

At the same time, there are also problems:

- a) Digital inequality not all students have equal access to technology.
- b) Motivation problems there is no social environment like in traditional classes.
- c) Complexity of quality control the objectivity of assessment can be problematic.
- d) Lack of human resources there are few teachers ready for digital pedagogy.

collaboration platforms can support flexible and effective virtual learning²

Discussion

The psychological impact of virtual classrooms is significant, with many students reporting increased stress and difficulty staying engaged. The lack of personal interaction and immediate feedback are frequently cited as drawbacks that contribute to emotional detachment and decreased motivation. Virtual classrooms offer significant advantages, such as flexibility, convenience, and the ease of accessing classes from anywhere. However, these advantages are offset by challenges such as reduced personal interaction, dependence on technology, and difficulty in keeping students engaged. Innovative teaching methods and technologies in virtual learning (VT) environments have the potential to enhance the virtual learning experience. To make VT more interactive and engaging, immersive learning environments, i.e., engaging the learner from within the subject matter through virtual reality (VR), augmented reality (AR), or interactive simulations, are being used. This method allows the learner to acquire knowledge not only by hearing and reading, but also by seeing, doing and feeling. In addition, asynchronous learning tools and

In recent years, a number of measures have been implemented in Uzbekistan to develop digital education. "Electronic learning", "ZiyoNet" platform, distance learning courses and cooperation with international online courses (MOOC) are important foundations for the implementation of the virtual university model. At the same time, a modern model of virtual education is being created through the opening of new virtual universities and the development of hybrid education models in existing universities.

² Zhao, L. (2024). Virtual Classrooms and Universities. ResearchGate. https://www.researchgate.net/publication/388274041 Virtual Classrooms and Universities

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In the future, for the full formation of this model, attention should be paid to the following:

- a) Strengthening digital infrastructure;
- b) Increasing the digital competence of teachers;
- c) Updating the accreditation and certification system;
- d) Increasing the digital literacy of students.

The development of virtual universities is leading to a paradigm shift in higher education. The traditional "student-teacher" model is now being transformed into a "student-platform-teacher" model. This increases the interactivity, flexibility, and technological integration of education. Virtual education encourages students to independently organize their activities, increases initiative in acquiring knowledge, and forms new skills (e.g., self-management, digital communication, online collaboration).

Conclusion

In conclusion, it is worth noting that while virtual classrooms and this learning environment have several advantages, they also pose a number of challenges, particularly in relation to student engagement and psychological well-being, including significant digital disparities, lack of personal contact and socialization, limited quality content and pedagogical approaches, and weak assessment systems. The effectiveness of virtual classrooms varies, with some students succeeding while others struggle. Future research should focus on improving the design and implementation of virtual classrooms to better support student needs. This includes exploring innovative pedagogical practices and technologies that improve engagement and learning outcomes.

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