WORLD FORUM ON ACADEMIC INNOVATION AND DIGITAL LITERACY

“DIGITAL EDUCATIONAL ENVIRONMENT AND ITS ESSENCE”

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Annotation: This article discusses the concept of the digital learning environment, its content and significance in the modern education system.

Keywords: Digital learning environment, digital pedagogy, information technologies, distance education, online learning platforms, interactive learning, multimedia resources, gamification, artificial intelligence, personalized learning.

Аннотация: В статье рассматривается понятие цифровой образовательной среды, ее содержание и значение в современной системе образования.

Ключевые слова: цифровая образовательная среда, цифровая педагогика, информационные технологии, дистанционное обучение, платформы онлайн-обучения, интерактивное обучение, мультимедийные ресурсы, геймификация, искусственный интеллект, персонализация обучения.

Annotatsiya: Ushbu maqolada raqamli ta’lim muhiti tushunchasi, uning mazmun-mohiyati hamda zamonaviy ta’lim tizimidagi ahamiyati yoritilgan

Kalit so‘zlar: Raqamli ta’lim muhiti, raqamli pedagogika, axborot texnologiyalari, masofaviy ta’lim, onlayn ta’lim platformalari, interaktiv ta’lim, multimedia resurslari, gamifikatsiya, sun’iy intellekt, ta’limni shaxsiylashtirish.

Currently, the rapid development of information and communication technologies is having a significant impact on the education system, among other sectors. In modern society, the use of digital technologies is becoming increasingly

important for the effective organization of the educational process, the rapid and high-quality delivery of knowledge, and the development of students' independent learning skills. Therefore, the concepts of digital learning environments and digital pedagogy have become one of the most pressing issues in the education system.

A digital learning environment is an environment based on the use of digital technologies, Internet resources, electronic learning platforms, and multimedia tools in organizing the educational process. This environment allows for effective communication between teachers and students, and for the educational process to be organized in an interactive and interesting way.

Today, the use of digital tools in the education system is making the learning process more efficient and convenient for students. E-textbooks, video lessons, virtual labs, online courses, and distance learning platforms are expanding students' learning opportunities and allowing them to learn anytime, anywhere.

The digital learning environment also helps to individualize the educational process. That is, educational materials can be provided in accordance with the level of knowledge, interest and needs of each student. This increases the effectiveness of the educational process and helps students to better assimilate knowledge.Digital pedagogy is a pedagogical approach that involves implementing educational and teaching processes through digital technologies. This concept includes the use of digital devices, online platforms, and digital tools. As the importance of digital tools in education increases, digital pedagogy is taking on a special place as a science. This takes interactivity between teachers and students to a new level, allowing students to absorb information not only in text, but also in multimedia form.

Digital pedagogy is the study of the use and application of modern digital technologies in education and training. It involves the use of digital tools to enhance interactive relationships between teachers and students, making learning processes

more effective and convenient. Digital pedagogy represents the forms of teaching using various technologies.

Digital education has the following aspects that make it a modern form of education. Personalization of the learning process: Digital technologies provide educational materials tailored to the needs, interests, and learning level of each student. This is especially important in distance learning and automation of the learning process.

Distance learning opportunities: Digital pedagogy supports distance learning, meaning that students and teachers can interact and learn regardless of their physical location. This expands global educational opportunities.

Access to a wide range of resources for learning: Through the Internet, e-books, video lessons, and other digital resources, students have access to a wide range of resources to enrich their knowledge. This provides broad and fast access to educational resources.

Increase interactivity and motivation: digital tools, including game elements (gamification), multimedia materials, and interactive applications, help students actively participate in the learning process. This method increases motivation and makes classes fun.

Artificial Intelligence and Automation: With the help of artificial intelligence technologies, the learning process becomes more efficient as it monitors students' learning levels and offers them appropriate training. This allows teachers to save time and individualize the learning process.

Teamwork and collaboration: Through online platforms, students have the opportunity to work in teams, communicate, and share their knowledge. These skills are of great value in the modern job market.

Digital pedagogy radically changes the modern educational system, making the educational process more efficient, convenient and innovative. It works with

technological development to expand educational opportunities, allowing individual approaches to each student.

Digital education means reading through computers, the internet, mobile devices and online platforms. For example, video lessons, online courses, virtual labs, or e-textbooks are part of digital education. Simply put, digital education means reading through computers, the internet, mobile devices and online platforms. For example, video lessons, online courses, virtual labs, or e-textbooks are part of digital education.

Online learning platforms: Platforms like Moodle, Coursera, and Khan Academy allow teachers to communicate with students remotely.

2. Mobile learning apps: Teachers and students will be able to study materials, complete assignments, and communicate with the teacher through mobile apps.

3. Webinars and webinars: During remote learning, teachers can share their knowledge and answer students' questions through webinars.

4. Interactive learning materials: Videos, audio resources, interactive graphics, and quizzes are used to engage students and improve retention.

Digital pedagogy introduces teachers to new teaching strategies, helping to make the learning process more flexible and individualized. At the same time, this approach is aimed at improving the quality of Education, deeper and wider assimilation of knowledge.

When it comes to the advantages and future role of digital pedagogy, it is a new stage in the educational system that offers several important opportunities and achievements.

Advantages:

Flexibility: Digital learning tools allow students to learn anytime and anywhere. This makes the learning process flexible and tailored to individual needs.

Personalization of learning: Digital technologies help provide materials and assignments tailored to each student's individual needs and level of knowledge.

Artificial intelligence and analytics tools automatically track and adapt the learning process.

Wide access to resources: Through the Internet and online platforms, students can freely access a wide range of materials, books, videos, and interactive textbooks.

Interactivity and gamification: through game elements and interactive activities, students are more actively involved in the learning process. This makes the learning process interesting and effective.

Multiformat content: Using different formats such as text, video, audio, and graphics allows for a broader understanding of topics for readers.

Self-assessment opportunities: Students are given the opportunity to assess their knowledge using tests, quizzes, and interactive assignments, which helps them develop their own abilities independently.

Broadening access to education: Distance learning technologies expand access to education for rural areas, low-income families, or students with limited opportunities.

In conclusion, the digital learning environment is an important component of the modern education system. Digital technologies are of great importance in effectively organizing the educational process, expanding students' learning opportunities, and improving the quality of education.

Digital pedagogy also allows teachers to use new teaching methods and students to acquire knowledge in an interactive and engaging way. Distance learning, multimedia tools, and online platforms can make the learning process more convenient and flexible.

In the future, further development of the digital learning environment, widespread introduction of modern technologies into the educational process, and increasing the digital competencies of teachers will serve as an important factor in the development of the education system.



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