персонажів твору тощо була максимально пізнавальною. Основне – мотивувати учнів до читання тексту, і не тому, що треба вчити, а тому, що цікаво, тому, що завдяки усвідомленню художніх творів розвиватиметься інтелект, у тому числі емоційний.

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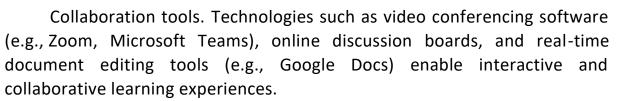
IMPLEMENTATION OF A VIRTUAL INFORMATION ENVIRONMENT IN THE EDUCATIONAL PROCESS

Implementing a Virtual Information Environment (VIE) in the educational process involves using digital platforms and tools to enhance learning and teaching experiences. This approach leverages technology to create dynamic and interactive educational settings where students and teachers can connect, share, and access resources regardless of their physical location. (Andros, 2023).

Key components of a Virtual Information Environment

Learning Management Systems (LMS). These platforms, such as Moodle, Blackboard, and Canvas, organize course materials, facilitate class discussions, and manage assessments and grades. They serve as the backbone for course delivery in a virtual setting. (Bradley, 2021)

Digital content and resources include e-books, online journals, educational videos, and interactive simulations. This content is often accessible through digital libraries or directly integrated into the LMS.

Collaboration tools. Technologies such as video conferencing software (e.g., Zoom, Microsoft Teams), online discussion boards, and real-time document editing tools (e.g., Google Docs) enable interactive and collaborative learning experiences.

Adaptive learning technologies use algorithms to personalize the learning experience based on individual student performance and preferences, helping to optimize learning outcomes.

Assessment tools are online quizzes, assignments, and exams equipped with anti-cheating technologies are common. Feedback and grading can also be automated to provide immediate responses to students.

Benefits of a Virtual Information Environment

Accessibility. VIE Allow students to learn from anywhere, making education more accessible to those who might be geographically isolated or have scheduling constraints.

Flexibility. VIE offer the ability to tailor learning experiences to individual needs, enabling asynchronous learning where students can engage with materials at their own pace.

Resource availability. They enhance the availability of diverse learning materials, which can be updated in real-time to provide the most current information.

Collaboration enhancement. VIE encourages collaboration across different geographic and cultural boundaries, broadening educational perspectives and opportunities.

Challenges and considerations

Technology gap. Ensuring all students have access to necessary technology and internet connectivity can be a significant challenge.

Engagement. Keeping students engaged in a virtual environment requires innovative teaching strategies and continuous interaction.

Training and support. Both educators and students may require training to effectively use new tools and platforms.

Data privacy and security. Safeguarding personal and academic data within virtual environments is crucial to maintain trust and compliance with educational standards and regulations.

The implementation of a virtual information environment requires careful planning, resources, and a commitment to continuous improvement and adaptation to technological advancements. (Nykyporets, 2023) By addressing these factors, educational institutions can maximize the potential of virtual environments to enhance learning outcomes.

On March 14, 2024, Professor Yevhen Palamarchuk, the department head of AI and IT at Vinnytsia National Technical University (VNTU) and the lead architect of the JetIQ project, along with Associate Professor Olena Kovalenko, the evangelist for the JetIQ project at VNTU, presented the "Electronic University" information ecosystem at a methodological training session. This event was held at Ivan Franko State University of Zhytomyr and was conducted in partnership with the All-Ukrainian Public Organization "Innovative University."

The training focused on the development of professional competencies for organizers of accreditation procedures in higher education and guarantors of educational programs. It emphasized "Digitalization as one of the main trends in the development of modern higher education and best practices in accreditation in the field of Information Technologies."

Participants were introduced to a student-cantered approach to forming an electronic educational environment for institutions. The presentation highlighted how the Electronic University ecosystem, facilitated by the JetIQ platform, integrates various educational processes, making them more accessible and efficient. The session provided insights into how digital tools can enhance educational outcomes and streamline accreditation processes, reflecting broader trends in higher education towards greater use of technology in administrative and educational frameworks.

The "JetIQ" electronic system is a unified integrated client-server educational platform designed to facilitate distance and blended learning, as well as manage higher education institutions. It aims to streamline the educational process at various levels – from individual instructors and students to administrative roles like deanships.

Key Features of the JetIQ System

Educational Process Management

For instructors, JetIQ provides tools for monitoring student performance in specific subjects and groups.

Deans and other administrative roles can access comprehensive data on course attendance, student performance, and any academic backlogs.

Modules Included

Support for research and methodological work.

Connectivity with scientific and methodological repositories.

Features for quickly surveying students about their course preferences.

Communication tools for interaction between students, instructors, and administrative staff.

News publication and corporate email usage.

Integration with scientometric databases.

Creation of electronic teaching aids.

Main page and personal workspaces

Main page acts as a central database for students, subjects, and instructors, serving as the primary resource for managing the university's educational process.

Personal dashboard for instructors. This includes: a personal repository with autopublishing features, a tool for creating navigators to educational resources, an electronic logbook for instructors and curators, modules for creating and managing electronic tests and for file sharing with students, communication modules including messaging, email, and web resource management tools.

Student dashboard provides a comprehensive environment for distance education, including: integrated tools for course material access and management, communication tools similar to those available to instructors, features for gamification, such as system rewards for active participation, personal academic records like a digital transcript and course schedules.

Testing and self-study systems

Test-IQ. A robust system for self-preparation and knowledge testing, analysing the effectiveness of tests and the quality of questions.

Automatic recording. Tracks each student's engagement and use of methodological literature, both graphically and in table formats.

Additional components

Integrated scientific repository. Based on DSpace, integrated with instructor personal repositories for auto-archiving of scientific works.

Methodological work repository. Analyses departmental methodological activities and generates web pages for departmental Jet-sites.

Jet sites for Departments. Semi-automatically updates current activities and results of departmental work, including disciplines, research, syllabi, publications, staff, and news.

The JetIQ system represents a comprehensive approach to managing and enhancing the educational and administrative processes within higher education institutions, leveraging technology to improve efficiency and engagement across all levels of the academic environment.

The implementation of a virtual information environment in the educational process represents a transformative shift towards a more integrated, flexible, and accessible approach to education. (Nykyporets, Stepanova & Hadaichuk, 2023) This digital transformation is not just about adopting new technologies, but about rethinking how education can be delivered to meet the needs of a diverse student body and a rapidly changing world. (Nykyporets, 2023)