

WEB TECHNOLOGIES FOR INCREASING THE EFFICIENCY OF COOPERATION WITH HIGHER EDUCATIONAL INSTITUTIONS AND ENTERPRISE CUSTOMERS

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Annotation: This article presents integrated web technologies aimed at increasing the efficiency of cooperation with higher educational institutions and customer employees, the current state of public online open courses developed by universities in developed foreign countries, various aspects and opportunities that integrated web technologies provide teachers.

Key words: higher education institution, education, science, web technologies, network, society, technology, educational material, pedagogy, psychology, manufacturing industries.

The development of the electronic education system further expands the practice of its effective use in the educational process and requires a careful look at current trends and existing world experience that determine the main vectors of development of the current educational paradigm. Today, millions of people around the world are undergoing distance education in almost all fields: law, engineering, programming, language learning, etc. Online education is becoming increasingly widespread due to its freeness, versatility and convenience. Among them, one of the most promising trends in the development of e-education in recent years has been the formation of state open online courses, which are based on the idea of public education with equal opportunities for all. Anyone from all over the world has the opportunity to study this course for free. Provides academic courses that allow teachers and hundreds of thousands of students (course participants) to organize free communication.

The main features of OOK are associated with such tasks as the implementation of the principles of continuity and individual orientation of education, bringing modern scientific ideas into an understandable form [1]:

1) mass participation, that is, the number of course participants is not limited;

2) openness, i.e. providing free knowledge to everyone, in a place and time convenient for them;

3) the integrity of the courses, that is, the courses include not only fragments of educational material, but also practical exercises, communication and materials that control the acquired knowledge;

4) the opportunity to receive a certificate upon successful completion of the course.

Teaching in public open online courses is a teaching system in which the teacher and student are at a certain distance. This requires the teacher to organize a lesson based on such means as computers, satellite communications, cable television.

Public open online education:

- consists of a modern form of open education;
- focused on the use of computer education;
- modern communication technologies are used for active communication with teachers and other students.

It is known that the competitiveness of specialists in the labor market largely depends on their ability to master advanced technologies and adapt to changing working conditions.

In the search for ways to improve the quality of education, the problem arises of creating a coordinated model of blended education that combines the best of modern education with the systematic and effective use of modern integrated web technologies. Many years of international and domestic experience show that the introduction of integrated web technologies into the traditional educational

process, as a rule, requires a radical change in the methodology of organizing the educational process and the introduction of new forms of various directions [2].

Currently, a lot of experience has been accumulated in the implementation of integrated web technologies, and in pedagogical practice there are three of its models, differing in the ratio of time and load distribution between classes, electronic components, and teaching strategy:

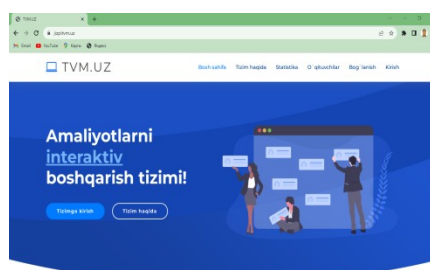
- classes conducted using web technologies - a model dedicated to independent work of students in an electronic environment up to 30% of the educational time, online consultations, ongoing and intermediate control, etc.

- blended learning - a model built on the integration and complementarity of traditional and web technologies (up to 80% of the time), which involves replacing part of traditional educational activities with various types of educational interaction in the electronic environment.

- distance education (online learning) – a model in which 90-100% of the educational process is carried out in an electronic environment.

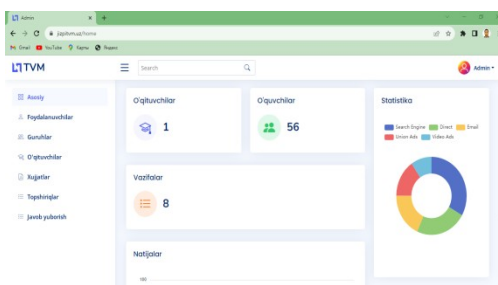
The use of educational web technologies in the educational process provides teachers with a number of opportunities:

Taking into account the above, we have developed an integrated web technology “Interactive Practice Management System”, aimed at interactive management of student practices, aimed at developing the production and technological competencies of students. As a result of this, it becomes possible to carry out educational, industrial, qualification and pre-diploma practice for students of higher educational institutions while ensuring integration with production enterprises, as well as to constantly monitor students’ internships [4].



Picture 1. The main part of the interactive operations management system.

This displays the login, system overview and system information.



Picture 2. This image shows the administrator-controlled portion of the interactive practice management system.

This shows the overall status of the system, i.e. you can enter users, add groups, enter teachers, post the necessary documents, control the sending of assignments to students, control the teacher's grading of assignments.

Thus, the focus on the process-resultative approach, which focuses on the special nature of the connection between the procedural and resultant sides of the desired process in the development of production and technological competence of students, has a direct impact on the development of integrated web technologies.

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