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**USE OF EDUCATIONAL PLATFORMS BASED ON CLOUD  
TECHNOLOGIES**

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**Abstract:**

This article discusses the relevance and importance of modern information and communication educational technologies, which are changing the paradigm of education today, and the advantages and disadvantages of some educational platforms based on cloud technologies.

**Key words:** educational paradigm, information and communication technologies, cloud technologies, cloud platforms, moodle, docebo, TalentLMS, edmodo.

**INTRODUCTION**

Today, the paradigm of education is changing. Leading foreign universities are also increasingly introducing variable (hybrid form) educational trajectories, distance courses and teaching technologies.

The impact of the COVID-19 pandemic has fundamentally changed the landscape of traditional higher education. The development of information and communication technologies has started a period of fundamental changes in human life. Modern technologies have brought a number of new approaches and views to the education system as well as to all fields. This process requires continuous improvement of methods and resources in educational institutions. The improvement of the educational system, in particular, the organizational and legal mechanisms of distance education, is also one of the top priorities for the development of digital infrastructure. Institutions of higher education have begun to implement new approaches, from the use of modern technologies in classrooms to the organization of public open online courses, in order to increase the scope of student participation in classes. Today, based on the reality, organization of teaching processes through online platforms has become an urgent requirement in higher education institutions of the world. Such platforms, first of all, create an opportunity for students to learn in a completely new way, that is, in a virtual environment.

According to UNESCO, the number of people who want to get an education is greater than the number of places in educational institutions. By 2025, the number

of students will be 165 million. compared to 98 million more. Online form of education can be an effective solution to meet this demand which is increasing year by year. Online education has made it easier for people to adapt to the rapidly changing world, to apply the acquired knowledge and to learn more easily.

Effective use of these online platforms can also give positive results to the educational process in ensuring the implementation of the task of step-by-step transition from education focused on acquiring theoretical knowledge to an educational system focused on the formation of practical skills in the educational programs defined in the concept of the development of the higher education system of the Republic of Uzbekistan until 2030. Below we will consider some educational platforms based on cloud technologies, their advantages and disadvantages.

## **MAIN PART**

**Moodle** is a free platform that allows users to create individual courses. The platform can manage virtual classes, create certificates and evaluate training courses using analytics. A social network can be created by exchanging messages between participants and teachers in the course forum. The platform can be widely used for collaborative learning technology, that is, it can help to organize an active learning form and solve tasks in training sessions. A voluntary evaluation system can be used. It offers to work with courses in 3 different ways: forum, structure (without linking the educational module to calendars), calendar (with linking the educational module to calendars). The platform has the following elements: Wiki, questionnaire, glossary, questionnaires, tests, organization of lessons in different ways. A WYSIWYG HTML editor can be used to enter lessons, and TeX or Algebra tools can be used to enter mathematical and physical formulas. In addition, the platform has a mobile version for working on mobile devices, integration with the OneNote plugin of Microsoft Office, support for SCROM and APIs, and the ability to sell courses using the PayPal system. Amenities:

- Simple and dynamic interface that can be easily configured;
- Supports open forum, plugins and resources;
- Ready-made templates;
- Mobile software for mobile devices;
- Collection of necessary equipment for the educational process;
- A comfortable environment for organizing the activities of teachers and students;

- Very good automated test system;
  - Supports various pedagogical scenarios and strategies;
    - Open source (OpenSource);
  - Completely free to use; - Another advantage of using MoodleCloud, a service provided through cloud technology, is that it works through Moodle's head office;
- Disadvantages:

- It is possible to create demo courses using cloud technology and work with only 50 users, the service is paid depending on the number of users;
- Learning the platform and working on it is somewhat difficult;
- To use the platform, it is necessary to install a separate server and to configure it, and the support of a good web developer;
- It is necessary to log in with a 3-level domain name for organizations in the service provided through cloud technology;
- There is no possibility to install your own or personal plug-in in the service provided through cloud technology;
- The service provided through cloud technology contains various advertising content;

**Docebo** is designed to improve the working environment and efficiency of the educational process, to create multi-functional remote online courses that work through cloud technology. The platform allows enterprises and organizations to improve the skills of their employees with the help of rapid courses, to create courses that meet voluntary requirements. The platform consists of 4 modules: Learn - formal training, Coach & Share - social training, Extended Enterprise - training other users, Perform - knowledge management. Learn is the main training module, the rest of the modules can be purchased as an optional extra. The platform can view 17 types of reports: users, courses, test results, sales of training courses and save them in PDF format.

- Features:
- Modern, convenient user interface; - Integration with business systems (CRM);
  - Sale of courses;
  - Supports SCORM, AICC and Tin Can compliant materials.
    - Can work with PPT, PDF, docx, xls and video formats.
    - It is possible to organize automatic tests and questionnaires.
  - One of the main advantages is creating courses using a modular structure based on the requirements of the educational institution or organization creating the course;
  - User list can be imported;

- Can be implemented quickly;

Disadvantages:

- The full use of the platform is paid, but it can be used with a 14-day demo version. To use the demo version as well, you need to send an email to the corporate mail.

- Payment must be made to use various widgets on the platform.

- There is no editor of personal electronic resources on the platform;

- Organization of webinars using GoToMeeting/Training/Webinar, Adobe Connect, Cisco Webex paid iSpring Learn LMS is simple and convenient for the user, it can be used anywhere, for this, materials can be downloaded to a mobile device and used at a convenient time. It presents data in 19 different ways and allows you to monitor the quality and effectiveness of the educational process and use your own educational strategy through complete statistics of the educational process. The platform is intended for online operation only. In addition, iSpring also has a collection of programs designed for creating electronic training manuals. The iSpring Learn platform can be easily provided with course materials by creating the necessary course materials and posting them online through the iSpring Suite editor. In addition, there is a video course with 26 lessons for using the platform. To use the platform, it is not necessary to read the instructions of a separate platform for hours, because it is not so difficult to perform administrative tasks. Amenities:

- There are many options for setting up content and materials;

- Registration and export of registered users by importing user lists;

- Special reporting tools (CSV, XML or PDF);

- Courses are mobile-friendly;

- Unlimited data storage environment;

- Web binary organization;

- It is possible to place a different color scheme and a personal emblem;

- SCORM 1.2, SCORM 2004, AICC i Tin Can. It is possible to work with materials in the format.

Disadvantages - The platform is paid, but there is a 14-day demo version;

- It is not possible to add an independent new function;

- You cannot collect the necessary reports for yourself;

- There is no possibility to create tests on the platform itself;

**TalentLMS** is an LMS platform for training using cloud technology.

The platform has expanded the possibilities of the user, video conferencing, announcements, creating an evaluation system and selling courses. Adaptation of



the design to mobile devices while maintaining the capabilities of the desktop version creates convenience for the user. It is possible to display content from other sites, except Wikipedia, YouTube, Vimeo, Wistia, Slideshare, Scribd, Prezi and Flickr. Tests can be created on the platform in 5 ways, in addition, it is possible to download and use those created using AIKEN or GIFT standards. On the platform, you can get reports about users, courses, groups, tests, questionnaires, tasks, events, which will also be reflected in the infographic on the platform.

Amenities:

- Creating courses in a few minutes;
  - Reuse of information used in previous courses (Youtube, Slideshare, Wikipedia, QuizMaker, Storyline);
  - Minimal user interface;
  - Courses can be sold;
  - Supports Scorm and TinCan standards.
  - It is possible to integrate with Zapier, WordPress, GoToMeeting, Salesforce Sales Cloud, Shopify, Zoom, Elucidat;
  - Direct recording of audio files;
  - Supports SCORM / xAPI / cmi5 standards.
  - ILT (Instructor Live Training) webinars can also be organized.
- Disadvantages:
- The free version can only work with 5 users and 10 courses.
  - Full use is paid;
  - Only the Administrator can add students to courses;

**Edmodo** is an LMS platform that helps organize distance learning through cloud technology. Edmodo was able to create a separate social network for education, because its general interface is reminiscent of Facebook. Using the platform is very convenient for an ordinary teacher, as the interface and principle of operation are simple. In order to access the training courses created on the platform, the learner is given a special code or a unique link, and with it he has the right to attend the course. There will be tests, assignments and questionnaires in the courses.

Features: - Free; -

There are no ads;

- Registration is easy, users are divided into 3 groups: teachers, students, parents.

Disadvantages: - It is necessary to work only with the interface in English; -

Formed groups cannot be combined; - Only one form can be created from the tests, there is no possibility to create another interactive way;

## CONCLUSION

Quality education has always been considered the main priority and value in our country. Today, innovative technologies in education are considered a unique mechanism, with the help of which they are embodied in the real world through modern tools and methods of the educational system. In order to introduce innovative educational technologies in the field of higher education, efforts are being made to strengthen relations with international higher education institutions, and in this regard, to implement innovative initiatives that are in line with the interests of the country's education system. The reason why the system of using online platforms in the educational process is becoming popular is that everyone can learn at a convenient time, in a convenient place, in a convenient environment. Today, students' worldviews are changing, and as a result, the activities of universities are also changing. Students and faculty are increasingly using digital learning materials and tools to make their work easier and more efficient. It is also clear that knowledge and skills will not be sufficient without the formation of relevant skills. It is no longer possible to include in the curriculum everything that students need to know within the framework of mandatory courses. The main task of a professor-teacher is to teach students how to learn, manage their knowledge, find, analyze, evaluate and apply knowledge when necessary through various methods. The formation and development of such abilities requires a transition to online learning methods and the use of complex structured learning environments. Taking into account the information presented in the article, the use of modern online platforms in education today is one of the important conditions for improving the quality of education and ensuring functional literacy of students by mastering the professional experience of professors in the field of education.

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