



Educational Systems and Practical Opportunities of Distance Education in Higher Education Institutions

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ABSTRACT

The article describes the content, functions, advantages and disadvantages of virtual education management systems in distance learning and its teaching in higher education institutions, their practical capabilities.

Keywords:

Distance education, distance learning, distance learning in higher education, virtual learning management system, distance learning system, online learning, online courses, e-learning, Internet, electronic document, innovative education, distance learning technologies.

Distance education (MT) is a type of education based on information technologies, since the teacher and the student are separated by distance or time. There are several models of this type of education, which differ in the circumstances that led to the establishment of distance education:

- geographical reasons (area of the country, presence of regions geographically distant from the centers);
- level of computerization and informatization of the country;
- level of development of transport and communications;
- availability of specialists for distance education;

- level of use of information and communication technologies in the field of education;

- customs of the country in the field of education. Distance education is also called electronic education and online education, the main elements of this education are physical separation between teachers and students during teaching and student-teacher and includes the use of various technologies to facilitate student-student communication. Distance learning has traditionally targeted atypical students, such as permanent workers, military personnel, and non-residents or individuals in remote areas who cannot attend long lectures. However, even as distance learning has become a major part of world education, trends point to continued growth.

Literature Analysis and Methodology: In recent years, new reforms in the field of national education have begun in Uzbekistan. The management of education was severely criticized by the head of the government. Normative legal documents aimed at a systematic innovative approach to the problem of improving the management mechanisms of the national education system of the republic were developed. PD-3775 of the President of the Republic of Uzbekistan dated June 5, 2018 "Additional measures to increase the quality of education in higher education institutions and ensure their active participation in large-scale reforms implemented in the country" The Decree "about" has become the center of the legal foundations of fundamental changes in the field of education in Uzbekistan. According to this law, the creation of new higher educational institutions in the regions, the opening of modern education and specialization areas for personnel training, as well as correspondence and evening education departments, and the increase of admission quotas to higher educational institutions are among the important reforms. became Now the introduction of modern forms of teaching, including modern mixed forms, is becoming more and more important in the field of education. Strengthening effective innovation and education by regulation is also an urgent task. In October 2019, the concept of developing the higher education system of the Republic of Uzbekistan until 2030 was adopted in our country. A significant innovation was the step-by-step transfer of the educational process to the credit-module system in higher education institutions. Under the conditions of the pandemic, the implementation of the measures envisaged in the Concept of Development until 2030 included an unexpected and in many ways forced acceleration. In order to adequately respond to the problems, it was necessary to immediately reorganize the entire education system, including not only higher education, but also secondary school and even preschool education. In a short period of time, the entire education system of Uzbekistan was rebuilt and put into operation based on the principles

of digital and distance education. The Covid-19 pandemic and the quarantine that accompanied it not only disrupted the usual way of life and work of people, but also opened up new opportunities for organizing civil society behavior. This fully applies to the educational system under quarantine. It was necessary to establish an educational process that was violated by introducing various restrictions on the freedom of movement of the participants of the educational process. In this situation, distance learning played the role of saving lives.

Results: Distance learning platforms were launched from April 1, 2020 in order to ensure the continuity of the educational process in the republic's higher education institutions and to methodically support the learning activities of students from a distance. Such platforms, first of all, gave students with the opportunity to organize the educational process in a completely new format, that is, by forming an audience of students and teachers in a virtual environment. Distance learning system (Distance Learning System) is an organization of distance learning, an additional support system for the educational process, electronic document circulation, creation of electronic educational materials, management within the studied subject and is software for evaluating progress and advising. Distance education implies the active use of Internet technologies that allow teaching when the teacher and student are far from each other. Now Internet or local computer networks are used for this purpose. The modern field of education offers several forms of education: full-time, part-time, evening, part-time and distance learning. Distance education is the most suitable education for the modern level of society's development according to current requirements. Unlike classical forms of education, distance learning is carried out using all the latest innovative, technical achievements in the field of telecommunication technologies and the Internet. Distance learning systems allow to prepare schoolchildren, students, and workers for the workplace. Currently, a distance learning

system is a ready-made software product that can be purchased and installed, such as the MS Office suite, after studying a user manual or taking a short training course. , courses are created in the system. Any system of distance education is a systematic information complex used for planning and conducting all distance education activities, often in conjunction with full-time, part-time and evening programs. Abroad, such systems are usually called "Learning Management System" (Learning Management System), which indicates their extended functionality and the important role they play in the work of the entire educational institution.

Learning Management System allows:

- Organization of an additional system to support the educational process.
- Organization of educational work and testing the qualifications of employees and applicants to work in corporate centers, commercial organizations.
- Conducting distance learning when students are physically removed from the educational area, subscribe to certain topics/courses, receive methodological instructions and advice from teachers, and complete a certain set of test tasks.
- Management of the educational process in educational centers, courses and universities, testing and qualification improvement, increasing the quality of education, increasing the number of students being trained at the same time.

The distance learning system is used to perform the following tasks and achieve these goals:

1. Automation and centralization of educational process management.
2. Placing educational materials to ensure students' access to them.
3. Keeping distance learning technologies (DLT) standards up to date.
4. Ensuring reuse of educational materials, personalization of educational content.
5. Expanding opportunities and means of mutual cooperation between the participants of the educational process.

6. Increasing educational efficiency and reducing educational expenses. Acceleration of the educational process.

7. To simplify the monitoring of the effectiveness of the implementation of educational programs.

The learning management system LMS provides the following opportunities:

- Management of all types of training (electronic, full-time and part-time).
- Examination of knowledge and skills.
- Analysis of training and evaluation of results.
- Providing content and programs.
- Archive of educational materials.

Discussion Of course, each company, organization or institution has its own needs in solving distance learning problems. To understand which system you need, you need to evaluate all the LMSs available in the market. Only then can the integration processes within the organization or institution begin. Those who are just starting to create online courses know what the development of the distance learning system is. After all, e-learning is an integral part of LMS. There are eight reasons why this system is so important: All information in one place. Learning materials can be collected in one place, which excludes the use of discs and other media. In addition, this approach facilitates learning and reduces the possibility of data loss. Free access to the content you need. E-learning courses can be conducted not only through personal computers, but also through smartphones and other innovative gadgets. All information is located on one server. Analysis of the educational process. Unlike traditional training, LMS allows you to track the course and guarantee its completion. If the user does not absorb the information, then it is possible to recommend other educational resources to increase the learning efficiency. Almost all LMS automatically generate reports and show student errors. It is possible to make changes to the module at any time. Minimal costs. When it comes to traditional training, it is necessary to take into account the nuances such as the costs of the institution, renting the premises,

etc. The distance education system helps to get rid of these problems by reducing the costs of organizing courses in real time. High efficiency. LMS allows you to remove all the non-essential parts of the training, leaving the main information. Students have the right to choose any part of the lesson to master in a short time. Among other things, users can immediately test their knowledge by passing a test, exam or a special simulator. Considering all requirements. Since each company or organization has its own system and rules, online courses are adapted to the standards approved by the management. At any time, the administration can always quickly introduce new standards. Materials are updated. Scientific works are constantly updated, so it is possible to make timely changes to the educational program. LMS provides such an opportunity, students receive the latest scientific evidence without forgetting important information. Integration with various sites, forums and social networks. The system integrates e-learning with social networks (VK, Facebook, Twitter, LinkedIn, YouTube) quickly and easily. As more and more websites are involved, online courses are becoming more and more popular.

Disadvantages of LMS. In addition to the obvious advantages, there are also the following disadvantages of LMS that participants of online courses should be aware of:

- Since e-learning is carried out remotely, there is no possibility of face-to-face communication between the teacher and students. In this case, there is no individual approach to training.
- The lack of direct contact between the student and the teacher makes it difficult to manage the educational process and evaluate its results.
- Distance learning requires strict discipline from students, but it all depends on the student himself.
- To be constantly in the educational environment, you need high-quality technical equipment that not every user has.
- Lack of practical training.

- There is no additional stimulation and constant control over the student.

- If specialists do not have sufficient qualifications, then educational programs may be underdeveloped.

- The student can present his knowledge only in writing, there is no oral form.

Advantages of LMS.

The main advantages of LMS come from the concept of e-learning and its differences from traditional ones:

- Freedom of access - a student can study in almost any area. An adult student can study without stopping his main work.

- Reduction of educational costs - the student does not bear the cost of methodical literature.

In addition, savings will grow at the expense of salaries that should not be given to teachers, maintenance of educational institutions, etc.

- Flexibility of education - the educational process can be adapted to the capabilities and needs of teachers and students.

- Ability to develop in line with the times - users of electronic courses: both teachers and students develop their skills and knowledge according to the latest modern technologies and standards.

E-courses also allow timely and effective updating of educational materials.

- Potentially equal educational opportunities - learning is independent of the quality of teaching in a particular educational institution.

- The ability to determine the objective criteria of knowledge assessment - it is possible to determine the specific criteria of the student's acquired knowledge in the educational process.

Download educational material. As well as installing maps in the navigator, the trainer can upload ready-made courses in the format of SCORM, Tin Can, etc. to the distance learning system. Also, he can collect the lessons by combining the materials in the media library in various formats DOC, PDF, XLS, PowerPoint presentations, audio recordings, Wiki, Flash video and training manuals. Currently, there are the most popular systems used by the

world's universities, which are customized platforms for university systems that fully match the needs of higher education institutions and provide the necessary opportunities for universities for the complete process. Features of Platforms:

1. Moodle Free platform with extensive customization options. Installed only on one server. There are many plugins to expand the functionality. Requires web development skills for administration.

2. "iSpring" is a platform for the corporate sector. It is a support system for the course editor that allows you to quickly create courses and simulators from all kinds of training materials, webinars, detailed statistics and office documents and videos.

3. "WebTutor" Modular HRM platform, which allows organizing not only personnel training, but also all processes of working with personnel: it is a complex system with a wide range of capabilities that allows for the automation of competency assessment, recruitment and initial training.

4. "Teachbase" Cloud-based educational platform. There is a built-in course editor - the course page is built like a normal landing page in Tilda. Courses are available for sale.

5. "GetCourse" is the most popular platform among info-businessmen. Features include webinars, integration with multiple payment systems, and course theft protection.

6. "Memberlux" plugin for WordPress, which allows you to create an educational portal based on a regular website. There is a one-time payment and it is suitable for business people for initial information.

Conclusion: A well-built technological infrastructure is necessary for the implementation of an LMS. Teachers should be ready to adapt their curriculum to e-learning. With the help of distance education technologies, it is possible not only to transfer a number of regular pedagogical activities to the computer, but also to organize a truly high-quality, individual, differentiated education.

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