



 Research Article

ELECTRONIC AND DISTANCE EDUCATION OPPORTUNITIES IN THE SYSTEM OF PEDAGOGICAL STAFF TRAINING

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ABSTRACT

This article shows the possibilities of e-learning in the quality organization of the educational process in higher education and the use of modern opportunities, its application to the education system.

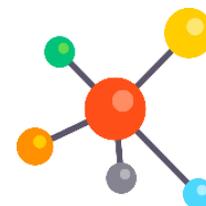
KEYWORDS

Higher education system, e-learning opportunities, e-governance, student, learning process, e-literature.

INTRODUCTION

In the context of the development trends of world education, the priority is to coordinate the innovative organization of the activities of the subjects of the pedagogical educational process, to bring up a comprehensively mature, harmoniously developed person, to improve modernized educational technologies based on competency approaches. Of

course, the future development of any society depends on the level of attention paid to the education of young people in that society. In particular, in his speech at the 72nd session of the UN General Assembly, President Mirziyoyev said: “The future of our planet depends on the development of our children. Our main task is to create the necessary



conditions for young people to show their potential. ”
In this sense, the issue of youth and their education in Uzbekistan is one of the priorities of state policy.

In today's era of globalization, our people are building a new Uzbekistan with their aspiration for social development and deep spiritual potential. In modern conditions, important measures are being taken in our country to ensure the well-being of society and people, social and spiritual development, which in turn are aimed at high goals and great prospects. In this regard, the implementation of the development strategy in the context of comprehensive development and national development of society is on the agenda, and in this important conceptual document the principle **"From action strategy to development strategy"** was recognized as the main idea and main criterion.¹

It should be noted that the changes taking place in higher education in this area have a positive impact on the quality of education provided to students. Because the organization of the educational process with the use of modern technical means, practical laboratories and multimedia capabilities allows to make lessons interesting and meaningful. Therefore, the introduction of digital technologies and modern methods in the educational process is a priority area for the development of higher education.

Approved on October 8, 2019, the "Concept of Development of the Higher Education System of the Republic of Uzbekistan until 2030" sets relevant tasks for the introduction of digital technologies and modern methods in the educational process. In particular, it is planned to implement the following:

creation of a system of training highly qualified engineers and technicians for the digital economy;

ensuring a strong integration of modern information and communication technologies and educational technologies, creating additional conditions for the continuous development of professional skills of teachers in this area;

individualization of educational processes on the basis of digital technologies, development of distance learning services, widespread introduction of webinar, online, "blended learning", "flipped classroom" technologies;

organization of distance learning programs based on modern information and communication technologies;

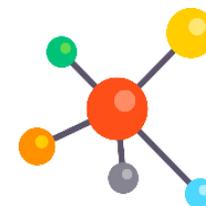
implementation of the platform "E-MINBAR", which allows online observation and mastering of lectures and workshops, as well as uploading them to electronic media, the use of "cloud technologies" in the educational process;

Widespread introduction of electronic library system for remote use, expanding opportunities for students to continuously improve their professional skills through the use of the library fund, databases after graduation;

Accelerate the creation of national e-learning resources, the organization of translation of foreign e-learning resources, the gradual increase in the share of e-resources in the educational process, the creation of e-textbooks, the placement of information on e-resources in libraries using QR-codes create;

¹ Мирзиёев Ш.М. Янги Ўзбекистон тараққиёт стратегияси асосида демократик ислохотлар йўлини қатъий давом эттирамыз. *Ўзбекистон Республикаси Президенти*

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creation of an electronic database of scientific and technical information of the higher education institution, consisting of conference materials, graduate and master's and doctoral dissertations, widespread introduction of the use of anti-plagiarism system to ensure the novelty of future scientific and technical information;

development of the use of modern software products that are widely used internationally in the educational process, based on the specifics of educational areas and specialties;

drastic reduction of the number of various reports and information received from higher education institutions, the abandonment of paper form of their preparation, the gradual transition to the "Electronic University" platform, which provides electronic management system and educational processes, library and document flow, electronic system for monitoring the effectiveness of education introduction;

creation of a national system based on the establishment of an electronic database (Student Record System), which contains information about teachers, undergraduate, graduate and doctoral students of higher education institutions and is constantly updated, etc.

Based on the above tasks, the Jizzakh State Pedagogical Institute is also working to expand the opportunities for e-learning.

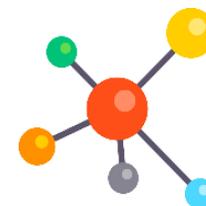
Firstly, today, like other organizations, higher education is implementing an electronic document

management system. Implementation of the Decree of the President of the Republic of Uzbekistan dated February 10, 2021 PF-6166¹ "On additional measures to strengthen the personal responsibility of heads of public administration and local executive authorities in the effective organization of the implementation of legislative acts" A completely new system of control over the implementation of laws, decrees, resolutions, orders and instructions of the President of the Republic of Uzbekistan has been introduced through a single interdepartmental electronic system of discipline. Resolution of the President of the Republic of Uzbekistan No. PP-5132 of May 31, 2021 "On joint measures to ensure the effective functioning of the single interdepartmental electronic system of executive discipline" ijro.gov.uz".

The following systems are used at the Institute for the following electronic document circulation: In particular, assignments, letters and orders of the Ministry of Higher and Secondary Special Education are received from the systems infox.edu.uz and mf.ijro.uz. In addition, letters to the institute from the regional administration and various organizations are accepted through the electronic systems e-xat.uz and jspi_info@umail.uz. Through these systems, the mf.ijro.uz system is used to deliver all letters, assignments and orders to the relevant officials, and the internal system of exujjat.jspi.uz is used at the institute to deliver internal orders to the responsible persons. In order to receive and deliver appeals of individuals and legal entities and virtual appeals to the relevant authorities and timely respond to appeals, the Institute places appeals in the system mf.ijro.uz and monitors their implementation in this system. The role

¹ Ўзбекистон Республикаси Президентининг 2021 йил 10 февралдаги “Қонунчилик ҳужжатлари ижросини самарали ташкил этишда давлат бошқаруви органлари ва маҳаллий ижро этувчи ҳокимият органлари

раҳбарларининг шахсий жавобгарлигини кучайтиришга доир қўшимча чора-тадбирлар тўғрисида”ги ПФ-6166-сон Фармони //https://lex.uz/ru/docs/5279413



of the electronic system in the consideration of appeals. In accordance with this law, the electronic system is used in the consideration of appeals in order to control the timely execution, to prevent violations of the deadline for the timely execution of the appeal.

Secondly, Starting from the 2020-2021 academic year, 33 higher education institutions in the country, including the first-year students of the Jizzakh State Pedagogical Institute, will be taught on the basis of a credit-module system. From the 2020/2021 academic year, 27 bachelor's degrees in full-time education, 11 directions in part-time education, 1 direction in evening education, 18 specialties in master's degree were transferred to the credit-module system. The task is to ensure the introduction of higher education institutions in the educational process from 2020/2021 on the basis of approved and agreed state educational standards in higher education, qualification requirements for undergraduate and graduate specialties, curricula and science programs. From the 2021-2022 academic year, a credit-module system has been developed based on the new State Education Standards. Most importantly, higher education institutions have been granted academic independence. Now we do not take curricula and study programs from basic higher education, but independently develop them by the decision of the Institute Council.

It should be noted that the Decree of the President of the Republic of Uzbekistan dated August 5, 2020 PF-6079 "On approval of the Strategy" Digital Uzbekistan - 2030 "and measures for its effective implementation" was adopted. This document has played an important role in the development of modular e-learning. The Institute has introduced the HEMIS - Higher Education Process Management Information System. On this basis, in the 2020-2021 academic year, 862 professors

and teachers were registered in the system through the information system HEMIS - Management of Higher Education Processes. 16297 students were registered in the system. 129 specialties, 256 curricula, 782 academic groups were created. In the 2020-2021 academic year, 831 lesson schedules were recorded. Sheets were formed for 16,297 students through the platform. Diplomas and diploma applications were formed for 3122 graduating students.

Depending on the nature of the science, the departments conduct intermediate inspections and the period is determined independently. One subject is allowed to take 1 to 2 intervals, depending on the total number of hours. Interim control schedules and transfers are recorded in a complete system. Through the HEMIS platform, information on full-time faculty and student attendance is recorded through the system. In order to facilitate the quality of the educational process for teachers and provide quality educational services from the 2021-2022 academic year, the inclusion in the full electronic system of calendar plans, teaching materials, work plans, textbooks on science, control system has been set up. The registration of accounts in paper form was abolished and electronic registration was introduced.

The HEMIS system has once again shown that e-learning opportunities are huge. Let me give just one example. Deans of higher education faculties used to take some time and perform electronic paperwork-related functions electronically. In particular, through the HEMIS system, they:

- Formation of educational directions and specialties, qualifications and student achievements, academic groups and student base related to the "Students" menu of the information system;

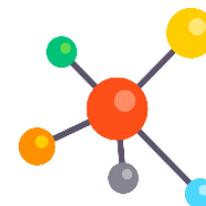


- Dismissal and reinstatement of students, academic leave, transfer of students, transfer from one course to another, transfer from one course to another and the formation of graduation data, electronic commands related to the menu "Student Movement" of the information system;
- Formation of curricula, study semesters, study weeks and curriculum subjects, scheduling of lessons and controls, formation and control of exam lists related to the menu "Learning Process" of the information system;
- Monitoring and analysis of student attendance and learning outcomes, maintenance of electronic records, calculation of students' GPA scores and providing students with personal graphs, which are related to the menus of the information system "Attendance" and "Assimilation";
- Monitoring of training and retraining of professors and teachers of the information system "Personnel";
- Record and monitor the results of the defense of the final work or master's dissertation in the final state certification of students, which belongs to the menu "Controls" of the information system;
- Formation of information on students' mastering of subjects, accreditation of graduates and formation of diploma data, accounting of diploma forms, list of topics of final qualifying works and master's dissertations and data of state attestation commissions, student transcripts, study sheets and preparation and accounting of academic transcripts;
- Professors and departments of the information system, which belong to the menus "Rating" and "Statistics", have the ability to monitor the rating of scientific activity, the formation of statistical data on students and teachers, and other opportunities. The implementation of such

functions in an automated electronic format is of particular importance in the transparent organization of the learning process.

Thirdly, Appropriate material and technical base plays an important role in the electronic organization of the educational process. Because without modern information technology, there can be no question of e-learning. Due to the large number of students at the institute, the material and technical base is gradually expanding. Especially in the last three years, the capacity of our higher education institution has significantly improved. It should be noted that the main educational building of the institute and additional educational buildings have been modernly renovated. Most importantly, a number of measures have been taken due to the importance of making lessons fun for students. As a result of the changes, 113 projectors, 24 touch monitors, 50 smart TVs, 1,155 computers were involved in the educational process at the institute. All this leads to the effective use of multimedia tools in the classroom. From the 2020-2021 academic year, the institute has a media center. The media center is equipped with the latest techniques for electronic recording of lectures. During the academic year, most of the special subjects were videotaped through the media center and posted on the modular network of the institute and on utub.uz for use by students.

Fourthly, today the educational process is unimaginable without electronic information resources. The video conference chaired by President Shavkat Mirziyoyev on June 16, 2021 focused on the priorities of the higher education system. The task was to connect all libraries to a single system, to create opportunities for students and researchers to use it around the clock, to introduce information programs



that eliminate plagiarism. Based on this task, we need to work on enriching electronic resources.

At the same time, in the enrichment of electronic literature at the institute, the President of the Republic of Uzbekistan on June 7, 2019 No PP-4354 "Further improvement of information and library services, development of information and library institutions", the Cabinet of Ministers of Uzbekistan on December 14, 2020 No 781 The program of measures to implement the tasks set out in the "National Program for the Development and Support of Reading Culture for 2020-2025" adopted by the Government of the Republic of Uzbekistan is becoming increasingly important. The total book fund of the information resource center of our institute is 20053 names, 140626 copies. The total fund of electronic resources is 27,450, of which the number of e-books is 16,865. Of these, the number of electronic textbooks is 8873, the number of electronic fiction - 7992.

In order to provide modern information services to users remotely, the Information Resource Center has launched its own website lib.jspi.uz and JSPI-library telegram-bot channel. Currently, the number of users of the site is more than 1,800, the number of users of the channel "JDPI electronic library" is 1,600, the number of users of the channel "JDPI teachers-ARM" is 224. The full text of 4093 publications in the fund of the Information Resource Center is posted on the page "Electronic library" of Lib.jspi.uz².

On June 2, 2021, a cooperation agreement on the use of the electronic database EBSCOhost was signed at the Information Resource Center of the Institute, and the work on the use of this database is underway. The

EBSCOhost interface provides access to scientific sources in e-books and e-journals, which can be accessed via the link Search.ebscohost.com. The agreement stipulates the use of the EBSCOhost database for a period of 1 year.

The above statistics relate only to the modernization of the education system at the Jizzakh State Pedagogical Institute. At the heart of all this are the reforms and broad opportunities being implemented in our country at the initiative of our President. We are confident that the great achievements we have set before us will be the basis for the third renaissance, as noted by the head of state, as such achievements are still being updated quantitatively.

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