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**ABOUT THE PROBLEMS OF  
SCIENCE AND PRACTICE,  
TASKS AND WAYS TO  
SOLVE THEM**

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# DISTANCE LEARNING AT THE ZAPORIZHZHIA MEDICAL UNIVERSITY

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The development of the system of higher professional education today is largely determined by the evolution of information transfer technologies. The formation of this area of knowledge establishes priority courses in the work of universities, one of which is the creation and constant expansion of the distance learning system for students [1].

Distance learning is a form of education using computer and telecommunication technologies that provide interactive interaction between teachers and students at different stages of education and independent work with the materials of the information network [2].

Training of highly qualified specialists in the conditions of the Bologna system, competitive in the labor market, as well as capable of competent, responsible and effective activity in their specialty is impossible without increasing the role of students' independent work aimed at stimulating their professional growth and fostering their creative activity [3].

And one of the most important tasks facing the teaching staff is the ability to properly organize and control the independent study of students in order to master the latest professional competencies.

In connection with this, at the Zaporizhzhia State Medical University (ZSMU) in the early 2000s, they began to introduce distance learning forms for independent work. This is how the RATOS® automated training system was first created. In this system, it is possible to carry out two variants of work - testing in training mode and control testing. The first option is used by students, first of all, to prepare for practical classes, final classes, mastering the questions made by the curriculum for independent study, preparation for licensed exams, etc. Control testing is used both in practical and final classes in the computer labs of the university, and at home - during the final control on the topics of independent work. The control test results are automatically uploaded to the system for teacher assessment.

In 2005, on the basis of the Department of Medical and Pharmaceutical Informatics and Advanced Technologies (MFI and AT), the Center for Distance Education and Telemedicine was opened. The main task of which is the development of distance education in ZSMU with the aim of: improving the quality of educational services in university with the help of information technologies; meeting the needs of society in educational programs and providing equal access to quality education for all segments of the population of the Zaporozhye region and others; ZSMU entering the international market of educational services training. Now at the Center (based on "RATOS®" and LMS Moodle (Modular Object-Oriented Dynamic Learning

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Environment)) full-time and part-time students, interns, cadets of preparatory courses, students of advanced training courses are trained [4].

Conducting on-line thematic training cycles is convenient and economical for health care (travel expenses are excluded), for medical students (without leaving home and work), for production (the doctor continues to bear certain loads). On-line lectures are easily perceived by doctors, provide an opportunity for deep assimilation of the material thanks to a variety of selected illustrations and, which is important, communication with the lecturer on the air [5].

A single platform was created with electronic educational resources of all departments - an up-to-date collection of information and educational and methodological tools necessary for mastering the curriculum (discipline), accessible via the Internet (local network) using a web browser and / or other software tools available to the user. Access to the platform is free for university students at any time convenient for them. Constant updating of resources is strictly controlled. So twice a year (before the beginning of the first and second academic semester), a special commission checks the pages with electronic resources of all departments according to the following scheme:

- updating the page with new curricula, curricula for practical classes, lectures, independent work;
- availability of up-to-date schedules of classes and lectures;
- availability of instructions for organizing the educational process;
- availability of up-to-date methodological and teaching aids, videos, lecture presentations, collections of test and situational tasks.

Also, some departments (pharmacology, pathological physiology, biological chemistry, and others) have their own sites, where all the necessary materials are placed.

It should also be said about the significant role of the ZDMU library in helping students and staff with distance learning. Today, users have at their disposal not only 4 subscriptions, 5 reading rooms, but also a computer reading room for 20 automated workstations (since 2007). Free access for users to their own and remote electronic information resources is organized, additional services are provided: photocopying, scanning, printing on a printer. Free access to the Internet was opened using Wi-Fi technology.

The university library has successfully implemented the automated information library system "IRBIS-64", which supports all technological processes of the library: accounting and processing of receipts of scientific, methodological and educational materials, all types of work on funds, analysis of book availability, registration and service of readers. Electronic book lending provides prompt service to users on subscriptions and in reading rooms.

There is an electronic catalog with a volume of more than 370 thousand bibliographic records, providing an operational, multidimensional search for documents with the aim of their subsequent ordering and providing on-line access to electronic copies in the local network from all personal computers of the library and university, as well as in remote access via the Internet.

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The Library's Blog was created, and in 2013 the library became a member of the International Association of Users and Developers of Electronic Libraries and New Information Technologies (ELNIT).

In May 2014, the scientific library began active work to create its own institutional repository of the university - IRZSMU. In October 2015, IRZSMU was registered in the Directory of Open Access Repositories (OpenDOAR), which contributed to the inclusion of the university in the world's information resources that provide a global search for scientific information [6].

Since 2016, the introduction of online elective courses and self-study courses on the modern LMS edX platform has begun (Fig. 1).

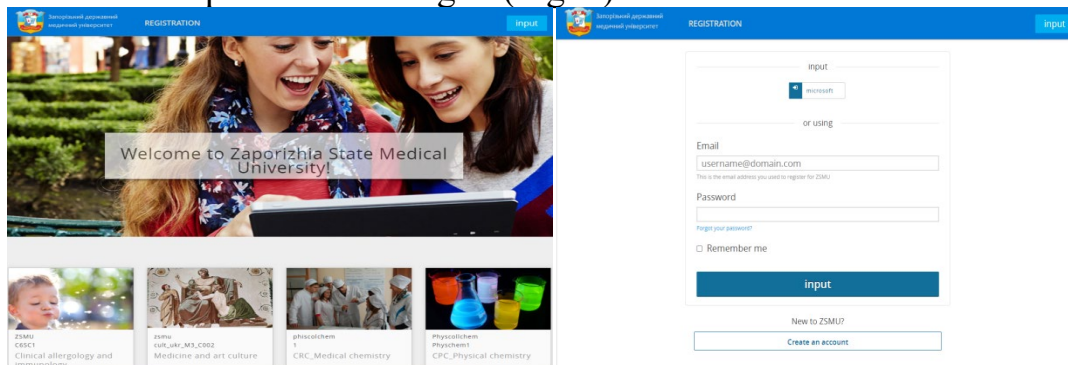


Figure 1. Courses of Zaporozhye State Medical University on the edX platform

The e-learning system on the edX platform is designed to provide blended and e-learning for all students, interns of ZSMU. The course programs were developed by the leading teachers of ZSMU. Online courses include lecture material, practical assignments, and a final certification procedure. Students are given the opportunity to access online courses around the clock, support and advice from teachers to ensure an effective learning process [7]. If in 2016 25 such courses were created, then in 2020 the number of such courses exceeds half a thousand.

Thus, the creation of a single information space of the educational institution and the formation of a community of the teaching staff of the university, possessing information technologies, is a necessary condition for the introduction of distance learning at a medical university [8]. And there is such an information space at our university. For the convenience of using electronic sources throughout the university there is a powerful Wi-Fi coverage, more than 60 computer labs in departments, as well as in the main building (in the library) and dormitories, interactive classrooms, an electronic library, a bank of video lectures, specialized websites and department websites.

And in 2019, they began to use the MS Teams service, which combines all the educational resources of our university and allows you to track the entire algorithm of a student's work, from sending him an assignment to statistics: when a student opened an assignment, how long he worked on it, what questions he answered correctly, and what not. The student receives the results of each work together with a meaningful commentary from the teacher, which allows him to carry out full-fledged work on mistakes.

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It should be noted that for the effective use of e-learning there is a constant training of teachers. To do this, the head of the Department of Medical and Pharmaceutical Informatics and Advanced Technologies, Professor Alexei Ryzhov conducts videoconferences at which he talks about innovations, difficulties, shortcomings that arise when working in the network, and gives practical recommendations on how to eliminate them.

Thanks to the presence of a single information space in our university, scientific and pedagogical (pedagogical) workers can provide the educational process using distance learning technologies in terms of their functional duties, being anywhere in Ukraine or abroad, in the case of a telecommunications connection as with the subdivisions of the system distance learning ZSMU, and students (listeners).

Therefore, when a lockdown was introduced in Ukraine in March 2020 in connection with the COVID-19 pandemic, ZSMU easily switched to e-learning to ensure the continuity of the educational process as a whole.

Undoubtedly, the use of information technologies in the educational process significantly expands the possibilities of learning, helps to create the possibility of conducting individual control, as well as teach students to conduct systematic self-control of their own educational activities. However, it should be understood that distance learning does not replace, but complements the traditional full-time education system, which is necessary for the acquisition of practical skills and abilities by medical students.

Thus, at Zaporizhzhia State University, all conditions have been created for effective distance learning, thanks to which students have the opportunity at any time to study theoretical material and master practical skills, according to the plan of educational work.

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