

# The method of organizing the pedagogical process of application of Information Technology in the Independent Education of students in the science of Information Technology in medicine using information technologies

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**Abstract:** Choosing a complex set of tools, commonly referred to as Learning Management Systems (LMS), to create the perfect combination of traditional classroom classes and the most appropriate components of an e-learning course has become common practice. Our institutions have chosen an open source LMS Moodle. After many years of its application in everyday pedagogical practice, we were inspired to analyze the effect of this platform. This article presents the results of surveys conducted to familiarize students and teachers with experiments with Moodle.

**Keywords:** learning management system, privacy, security, experience, LMS Moodle, localization.

## Introduction

This article presents the results of two surveys aimed at displaying the experience of students and teachers with the Moodle form. Mainly on these issues, and hence the impact of the use of LMS in everyday teaching practice on the academic achievements of students, were conducted within the framework of a bilateral project between our institutes. Participation in the study was voluntary and anonymous for both students and teachers.

Modern education standards require the use of various tools to complement the teaching and learning processes, as well as effective assessment. The learning management system is often the basis of a reliable e-learning platform and meets the standards and best practices recommended by respectable educational and corporate stakeholders [1-4].

The use of distance learning technologies in the organization of the educational process, the rapid receipt of new information in science ensures high efficiency. Virtual learning methods allow you to quickly get additional information on this issue. The introduction of distance learning technologies into the educational process and the study of methods of their effective use, as well as the creation of distance learning courses are one of the most important scientific and technical issues of our time. Based on the above, the use of Moodle in teaching for students of higher educational institutions, for teaching information technologies in medicine and information technologies in education processes is one of the key topics in the introduction of distance learning technologies in the educational process. The article describes the capabilities of the system (Learning Management Systems - LMS) or virtual educational environments (Virtual Learning Environments - VLE). Moodle is a tool environment for the development of both individual online courses and educational websites [12-16].

A few years ago, we decided to use and possibly expand the existing e-learning platform for our e-courses instead of developing a new system that starts from scratch. After testing several systems, we made conclusions about the available tools. The system we chose was supposed to be one of the well-established general-purpose LMS solutions, preferably open source [5-8]. Such a platform, in addition to its flexibility and significant cost savings, would offer opportunities for expansion and customization according to specific needs [3-4].

The open source LMS was evaluated according to a set of minimum criteria, which included an active community, a stable development status, good documentation, a didactic goal and a focus on content presentation and communication functions [11-15].

Moodle is a modular and extensible platform that offers features to support various educational styles. It basically follows established usability conventions. [1, 7]: it has a simple interface, uses a minimum number of words, has roll calls that provide additional information, etc. However, usability and privacy issues should be considered in detail when using such a solution [8-10].

### **Survey Plan and Methods**

The results of our study aroused the interest of many students and teachers, as our Bukhara State Medical Institute accepts foreign students enrolled in the MBBS program. Students from India, Pakistan and Saudi Arabia, as well as from New York, study in this group.

When teaching these students, I used the LMS Moodle platform, which is one of the electronic platforms that the teaching staff of developed countries uses in their work when I am engaged in teaching activities. With the help of this platform, I taught information technology in medicine, in the process of completing training sessions on the discipline program, lectures on the topic, practical classes, laboratory classes, I posted all the presentation materials, test questions, video courses. Creating a course on this electronic platform was very simple and interesting for me because here the teacher has the opportunity to independently create a course according to his lesson, and the performance of the program is very good, the creation of the e-course gave me great opportunities even during the transition to traditional training, because in Moodle, information was posted at all annual courses based on the opportunity to come prepared. When a student is preparing for a lesson, it would be interesting to work with them, and good results would be achieved, and students would be delighted with it.

These days, the Covid-19 pandemic in our country, as well as around the world, has had its impact. In order to prevent fraud, all educational institutions in our country have been transferred to an online learning system for a certain period of time: schools, colleges, technical schools, lyceums and higher educational institutions. During this quarantine period, all educational institutions conducted their pedagogical process using various electronic platforms. These were training sessions on television, via the Telegram messenger, via Zoom, through the HMIS application and through the LMS Moodle platform. At our institute, students studying in the national group direction were trained under the Telegram Messenger and HMIS program, while students from foreign educational institutions and students accepted on a contractual basis with foreign educational institutions were trained on the basis of the LMS Moodle program, at the end of the semester, students' knowledge was also obtained on the basis of the same platforms are Moodle and HEMIS platforms. Of course, we had a lot of difficulties in the HEMIS program as a result of testing students' knowledge, we often encountered interruptions in the course of the program, but in the process of working with Moodle system, we did not encounter any difficulties or interruptions. I used both of these programs when teachers were asked which program is convenient to use during a lesson or session, they all said with one voice that the breadth of the Moodle program allows each teacher to use it independently, without any dependence. During this pandemic, some of our students, Those who were accepted under the MBBS program, especially a student from New York, could not come to our country, and he told us about how well the course was created by fully attending our training sessions through the online Moodle program, and how he extracts a lot of information from this course. He expressed his gratitude to the rector and to the dean of our institute.

### **Conclusion**

In summary, we can say that, living in the modern age of computer technology, specialists in all fields, including us, teachers, must keep up with the times, using the latest innovative technologies, new modern electronic platforms in the educational process and changing the methods of transition, of course, our higher education institution will be among the 100 the best institutions in the world. places. To do this, we, teachers, must be in constant search.

**Reference:**

1. Asadova Yu.I. Using the moodle platform to organize training the covid-19 pandemic. Education and Innovative research 2021 №1 Page - [44-54] <http://www.interscience.uz>. (In English).
2. Асадова.Ю.И..Использование платформы moodle в традиционном обучении иностранных студентов, принятых по программе mbbs, предмета информационных технологий в медицине.. тезисы международной научно-практической конференции «современные проблемы прикладной математики и информационных технологий» Бух.Ду 485-487 с.
3. Asadova Yu.I. .Using the moodle platform to organize training the covid-19 pandemic. abstracts International scientific and practical conference «modern problems of applied mathematics and information technologies» 482-284 P Bukh.DU.
4. Асадова.Ю.И .Электронно-образовательная платформа - основа проектной деятельности студентов. II Международная онлайн научно-практическая конференция «Актуальные вопросы фармакологии: от разработки лекарств до их рационального применения» сборник тезисов 6 – 7 мая 2021 года 138-141 с
5. Asadova Yu.I Moodle platform – as a basis for organizing during a pandemic covid-19. Международная онлайн научно-практическая конференция «Актуальные вопросы фармакологии: от разработки лекарств до их рационального применения» сборник тезисов 6 – 7 мая 2021 года 175-176 с
6. Asadova Yu.I. Using the Moodle Platform in Extreme Cases. Central Asian journal of mathematical theory and computer sciences olume: 02 Issue: 06 | Jun 2021 ISSN: 2660-5309 Peg-[13-19] 2021. <http://cajmtcs.centralasianstudies.org/index.php/cajmtcs>
7. Asadova Yu.I Passing the Traditional Lesson with the Help of Open Moodle Platforms.. International journal on human computing studies e-ISSN: 2615-8159 | p-ISSN: 2615-1898. Volume: 03 Issue: 5 |Jul 2021 P-1-8 . <https://journals.researchparks.org/index.php>
8. Asadova Yu.I .The use of Moodle platform in the traditional transition of Information Technology Science in medicine to foreign students accepted on the basis of MBBS program at Bukhara State Medical Institute. Society and innovations Journal home page: Peg-[35-43]. 15 August 2021. <https://inscience.uz/index.php/socinov/index>
9. Asadova Yu.I .The Method of Using the Moodle Platform for the Organization of Teaching in Education (The Introduction of Distance Learning Technologies in the Educational Process).. International Journal of Innovative Analyses and Emerging Technology | eISSN: 27924025 | <http://openaccessjournals.eu> | Volume: 1 Issue: 4.Peg-[30-46].2021. <http://openaccessjournals.eu/index.php/ijiaet>
10. Асадова.Ю.И .Использование современной платформы moodle для самостоятельного обучения студентов на традиционных учебных занятиях. Pedagogik mahorat. Ilmiy-nazariy va metodik jurnal. 4-son (2021-yil, avgust) стр-[10-15]. <https://buxdu.uz/33-pedagogik-mahorat/132-pedagogik-mahorat/>
11. Asadova Yu.I. IUsing the Moodle Platform for Organizing Training in Education (Introduction of Distance Learning Technologies in the Educational Process. International Conference on Applied Sciences, Conference is organized in the London, United Kingdom on 24-25th September <http://papers.online-conferences.com> Peg-[15-18].2021
12. Asadova Yu.I .Using the Moodle Platform for Organizing Training in Education (Introduction of Distance Learning Technologies in the Educational Process). International Journal of Innovative Analyses and Emerging Technology | Volume: 1 Issue: 4.Peg-[63-67] .2021 <http://openaccessjournals.eu/index.php/ijiaet>
13. Асадова.Ю.И . MOODLE – эффективная система управления обучением для учащихся использование икт в образовании для самостоятельной работы студентов. Ўзбекистон миллий университети 6 октябрь назария ва амалиёт янги ўзбекистонда педагогика фанини инновацион ривожлантириш истиқболлари, Илмий-амалий конференция 2021 Oktyabr 195-197 с.
14. Asadova Yu. Results of the analysis of the use of the platform in the organization of ducation during the pandemic. Education and Innovative research 2021 №5 Page 191-201 . <http://interscience.uz/>

15. Asadova Yu. The use of electronic platforms for independent learning of students at bukhara state medical institute in Uzbekistan. Information of psychology and pedagogy as interdisciplinary sciences: a collection scientific works of the International scientific conference Italy( 13 December,Page 56-60 2021). [www.interonconf.org](http://www.interonconf.org)
16. Асадова.Ю.И. Прохождение традиционных уроков с использованием современной платформы moodle., Fizika,Matematika va Informatika. Стр [28-35] 2021 №4
17. Sobirovich T. B. National and universal principles of democracy //Asian Journal of Research in Social Sciences and Humanities. – 2022. – Т. 12. – №. 1. – С. 334-338.
18. Sobirovich T. B. The implementation of human indicator reforms in Uzbekistan //Asian Journal of Multidimensional Research. – 2021. – Т. 10. – №. 9. – С. 197-202.
19. Sobirovich T. B. Issues of gender equality in uzbekistan: Strategy of reforms //Asian Journal of Multidimensional Research. – 2021. – Т. 10. – №. 9. – С. 203-207.
20. Sobirovich T. B. Strategy of Renewal of National Spirituality of Uzbekistan //International Journal on Integrated Education. – 2020. – Т. 3. – №. 8. – С. 122-126.
21. Sobirovich T. B., Murodogli I. S. The strategy for the implementation of the modern governance system in Uzbekistan //ACADEMICIA: An International Multidisciplinary Research Journal. – 2020. – Т. 10. – №. 5. – С. 741-748.
22. Sobirovich T. B. Strategy of spiritual renewal in Uzbekistan //International Journal of Psychosocial Rehabilitation. – 2020. – Т. 24. – №. 06.
23. Sobirovich T. B. The criterion of human indicators in development and renewals in Uzbekistan //EPRA International Journal of Multidisciplinary Research (IJMR). – 2020. – Т. 6. – №. 8. – С. 509-511.
24. Sobirovich T. B. The Strategy of Cultural Development in Central Asia During Amir Temur and the Temurids Dynasty //Int. J. Sci. Res. in Multidisciplinary Studies. – 2021. – Т. 2021.
25. Sobirovich T. B. The Strategy of Cultural Development in Central Asia during Amir Temur and Temurids Dynasty Reign //Irish Interdisciplinary Journal of Science & Research (IIJSR). – 2021. – Т. 5. – №. 1. – С. 18-22.