



**THE METHODS OF TEACHING, LEARNING TO INDEPENDENT WORK:  
MOODLE EXPERIENCE AT BUKHARA STATE PEDAGOGICAL  
INSTITUTE IN UZBEKISTAN, BUKHARA STATE PEDAGOGICAL  
INSTITUTE**

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**Abstract**

Currently, in order to improve the quality and effectiveness of education of institutions of higher learning, in order to create conditions for students to acquire independent knowledge, it is being used on our e-learning platform at Bukhara State Pedagogical Institute.

Numerous universities are taking initiatives to start e-Learning courses using open source software based LMS portals. BSPI has also declared the norms to grant permissions to such courses. MOODLE (Modular Object-Oriented Dynamic Learning Environment) is one of the widely used environments across the reputed universities in the developed countries for such courses. MOODLE, HEMIS, at Bukhara State Pedagogical Institute.

**Keywords:** MOODLE (Modular Object Oriented Dynamic Learning Environment), Opensource, ICT (Information and Communication Technology),

**Introduction**

Up-to-date 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 complies with the standards and best practices recommended by respectable educational and corporate stakeholders [7-10]

Learning Management Systems (LMS) are used by educational institutions around the world to organize important course information and provide hybrid or fully online courses with all the

components of a traditional face-to-face class, including assignments, classroom resources, and the ability for students and teachers to collaborate within a centralized digital learning solution [6 -18]

MOODLE (Modular Object-Oriented Dynamic Learning Environment) is the world's most widely used Learning Management System (LMS) for delivering learning





through a dedicated learning platform, providing millions of educators with flexible, open-source technologies [7-16].

Open Source ([www.opensource.org](http://www.opensource.org)): In the past decade, open-source software has become one of the most used platforms among software users, developers and practitioners for their personal as well as professional usage. The interest in open-source software is increasing because: The success of products such as Linux and Apache are obtaining popularity as well as market share; [1-8]

The agitation about the Microsoft monopoly in the software industry; and the "classical" approaches to software development are failing to provide a satisfactory answer to the increasing demand for effective and reliable software applications.

MOODLE ([www.moodle.org](http://www.moodle.org)) (Modular Object Oriented Dynamic Learning Environment)

This Learning Management System (LMS) software automates the wide administrative tasks in educational institutions, such as registering users, Planning the courses, tracking course execution, recording data, charting a user's progress for certification, and providing reports to accreditation and control bodies like UGC, AICTE from India. These systems also help students for interactive Learning and better engaging with the courses than traditional methods of delivery. There are many such platforms available on the web. To name a few: [10-16].

Blackboard, WebCT, Alpha LMS, Link2school, CentraOne, Consensus, Web-guru, Lmswizdom, Wiziq and Moodle. Moodle is abbreviation for Modular Object- Oriented Dynamic Learning Environment is a free source e-learning software platform. Moodle is called learning management system (LMS) or a Virtual Learning Environment (VLE) which is most popular all over the world because of several features it offers.

Many institutions from different parts of world are using Moodle for the teaching, learning and assessment of their students in all types of courses because of its Flexibility, Customization and Security offered with no extra costs.[6-14]. Moodle environment also helps to understand the topics with interactive ways like: Activities (including games)

We know that there are many electronic platforms: For example, there are so numerous electronic platforms, such as the Black board, LMS Moodle. Among these electronic platforms, the Moodle electronic platform is distinguished from other platforms by its capabilities and convenience.





## MATERIALS AND METHODS

Meanwhile Moodle electronic platform is a convenience and open platform, our Bukhara State Pedagogical Institute is coming up using both professor teachers and therefore our Innovation is coming up using both professor teachers of the Department of Exact Sciences.

To the Moodle electronic program, I have placed all the data presentations video courses on the subjects specified in the science program on the lecturing practice lab, at the same time ,topics have also been placed so that students can gain more accurate knowledge at the same time, control test questions have also been placed to assess students ' knowledge.

Currently, all students who come to participate in traditional classes have their own independent education other topics that are given for their work are being done through the Moodle electronic platform, this opportunity not only creates an opportunity for the student to work independently, but also motivates his or her independent intelligent.

There are several examples of content used in the course of teaching information technology for students using the Moodle electronic platform course..

For example, we provide information on the subject for the student to learn the subject independently, as shown in Figure 1 below..

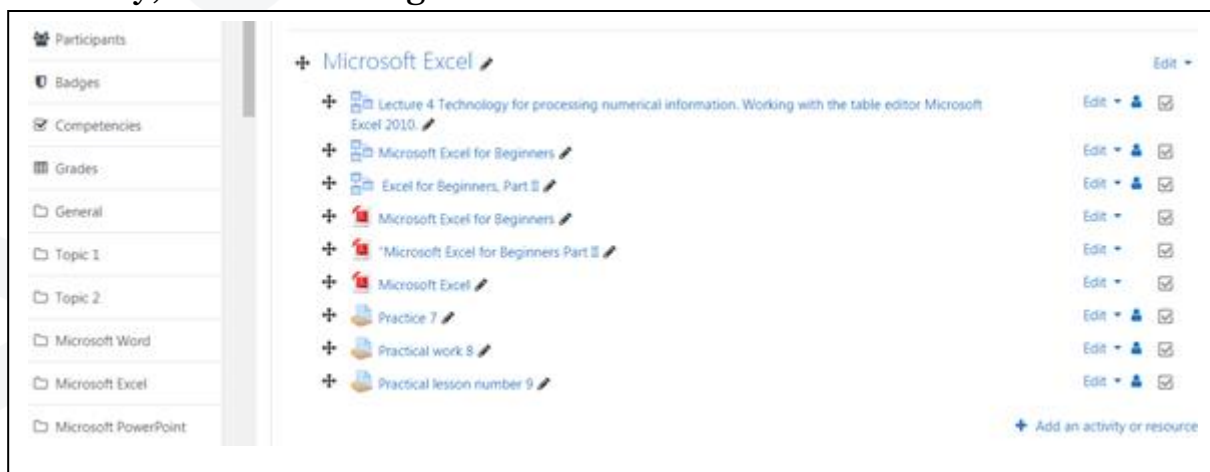


Figure 1.

The information in the course is shown in Figure 2, which is organized in the following ways.

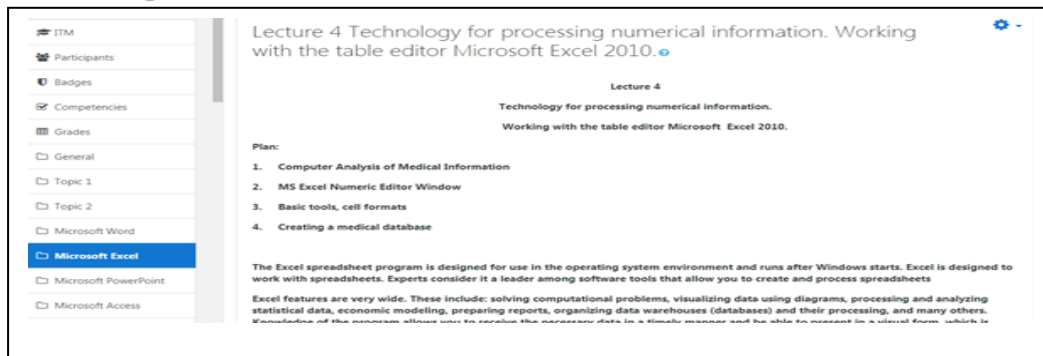


Figure 2.

For the same reason, to find out how much the student has mastered the given topics, we used the test content of the Moodle program for test evaluation, and I used the method of creating test questions in the form below. This is shown in Figure 3.

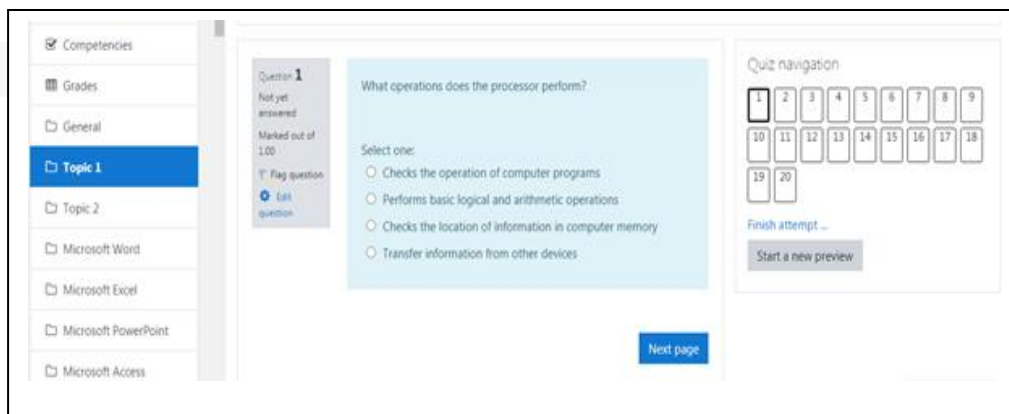


Figure 3.

After receiving the test results, students' learning is shown in Figure 4 below.

First name / Surname	Email address	State	Started on	Completed on	Time taken	Grade/100.00
Bahrom Xasanov	bhasanov520@gmail.com	Finished	16 January 2021 9:52 AM	16 January 2021 10:32 AM	39 mins 57 secs	100.00
Aziza Murtazabeva	nafis_1909@mail.ru	Finished	16 January 2021 9:53 AM	16 January 2021 10:24 AM	30 mins 45 secs	100.00
Humoyun G'aniyev	humoyunganiyev0071@gmail.com	Finished	16 January 2021 9:53 AM	16 January 2021 10:30 AM	36 mins 24 secs	100.00
Nigina Shamiddinova	Niginashamiddinova@gmail.com	Finished	16 January 2021 9:53 AM	16 January 2021 10:26 AM	32 mins 50 secs	98.33

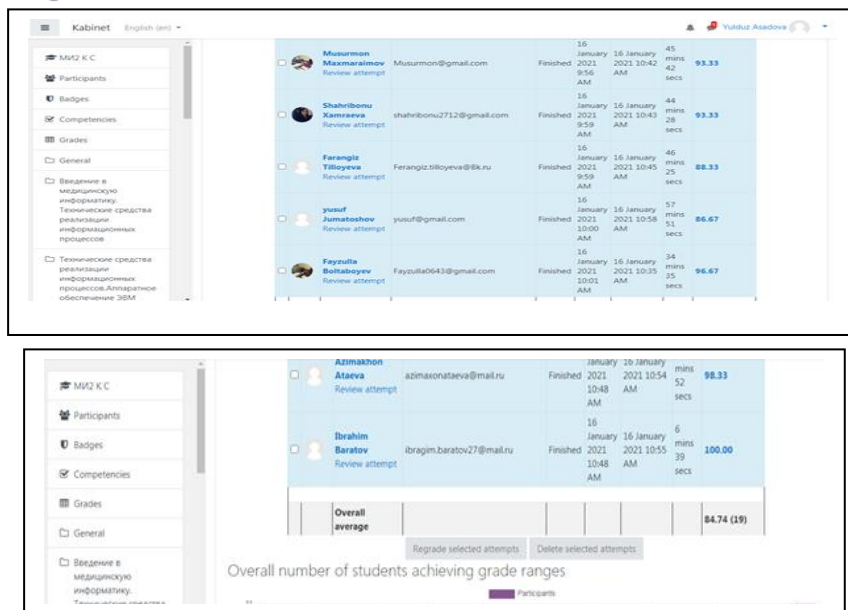


Figure 4.

It can be seen from the test results that the results obtained by students before using the Moodle platform were 55%, and after using the Moodle platform, the results were 84%, which shows that the student needs additional information for independent learning during the course of the lesson. If training sessions are organized with the help of various methods, the student will get the necessary knowledge and achieve good results.

Throughout the same period of use of the platform, in order to know the opinion of the students, they were told that when they used the Moodle platform, all students unanimously benefited greatly when a survey was conducted with the aim of knowing whether they had encountered any difficulties or misunderstandings, or whether the same electronic platform had the benefit of their independent

## CONCLUSIONS

In conclusion, we can say that the use of distance learning technologies and the creation of distance learning courses are of particular importance for improving the effectiveness of education. In particular, the study and implementation of effective methods for creating a distance learning system is an important aspect of achieving our goals. The use of information and innovative technologies in the education system increases the efficiency of the educational process, increases the ability of students to work on themselves, strengthen their knowledge and use it in practice. So through the Moodle electronic platform, this opportunity not only creates a prospect for the student to work independently, but also motivates his or her self-determining intelligent.



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