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METHODOLOGY OF ORGANIZING INDEPENDENT EDUCATION OF STUDENTS BASED ON ELECTRONIC PLATFORMS

Asadova Yulduz Ismatovna
Bukhara State Pedagogical Institute
Department of Exact Sciences Assistant
email address: sirus77@inbox.ru.

Abstract

Today, the use of modern technologies is used in our electronic learning platform at the Bukhara State Institute of Pedagogy in order to improve the quality and efficiency of education in higher education institutions, to create conditions for students to learn independently..

Many universities are taking initiatives to start e-Learning courses using open source software based LMS portals. 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. The objective of this research is to explore use and benefits of MOODLE Open Source Platform by presenting first experience and responses from the users (both Faculty and Students) This is being used for Teaching, Learning and Continuous Assessment for students to obtain independent knowledge.

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

Introduction

Open Source (www.opensource.org):In the past decade, open source software has become one of the most used platform 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 obtain popularity as well as market share; [1-11]

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.

The Open Source Initiative ("OSI") defines Open Source as software providing the following rights and obligations which motivated users to go for Open Sources.

a) Unrestricted distribution: There is no royalty or other fee imposed upon redistribution.

b) Source code distribution: Availability of the source code of the entire open source product to the client.

c) Modifications: Client gets right to modify and derivative works.

d) Author's source code integrity: May require modified versions to be distributed as the original version plus patches.

e) No personal discrimination: Every user is treated same.

No restriction on application: One can use it for any industry or personal work as well.

g) License distribution: All rights granted must flow through to/with redistributed versions.

h) License is not product-specific: The license applies to the program as a whole and each of its components.

No restriction on other software: The license must not restrict other software, thus permitting the distribution of open source and closed source software together .Technology neutrality: Licenses should not be issued on the basis of the specific technology involved [5-10].

LMS (learning management systems) has emerged as very viable solution to many schools, colleges and universities, particularly universities from past 8-10 years. LMS has helped the institutions for the presentation of the content or instructional design of the different courses and played a vital role in serving educational and instructional objectives.[4-18].

There is other side also. Poorly selected and presented content from such LMS has severely affected the teaching learning experiences in many cases. Instructional design is a scientific method of approach to deliver content in “an interactive and most effective manner” to a particular group of students in order to meet certain specific learning objectives in time bound manner by considering the pace of the student also. It is based on the principles of Educational Pedagogy, Human Psychology and the technological benefits offered by Information Technology, in dealing with different issues of teaching and learning at different age groups.[1-18].

The main advantages of use of open source LMS are as follows:

a) Freely Available: You don't have to pay annual subscription payment or renewal charges to software companies. e.g. Everyone has to pay Microsoft for Windows and MS-Office.

b) Greater Flexibility: Open source products are customizable according to the need. New features and tools can be imported from the open source community whenever need arise.

c) Free Service: The huge collaborative network of the open source community minimizes the risk, although it does not eliminate, the risk of discontinued service. Volunteers help is available through open source support systems such as forums.

d) Continuous Improvement/Upgrade: Extensive collaboration ensures the upgrades in the software products. Programmers from different institutions and organizations, along with volunteers, contribute freely to projects.

e) Tax benefits: Governments of many countries have implemented tax-exemption policies to boost open source projects. In India for educational purchase octopi charges are waived on some conditions.

f) Online Documentation: All help and documentation required to use and run the open source software is available on the respective software's site.

MOODLE (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: [1-12].

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.

Some typical features of the Moodle are:

- Assignment submission
- Discussion forum
- Files download / upload (supports many formats)
- Grading / Marks
- Moodle instant messages / mails
- Online calendar
- Online news and announcement (University and course level)
- Online quiz
- Wiki

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.

Moodle environment also helps to understand the topics with interactive ways like: Activities (including games)

- Different resource types as document, presentations, spreadsheets, audio and videos, pdf etc.
- Different question types (multiple choice, true and false, fill in the blank, etc.)
- Data field types (for the database activity)
- Graphical themes to make interface attractive
- Authentication methods for control and keeping track (uses username and password accessibility)
- Enrollment methods
- Content filters

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

Since 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.

Another of the key convenience aspects of this program is that especially for students, our students participated in their training sessions online and completed their assignments on time.

Today, 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.

During 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

Thus, we can achieve good results in the education process using the Moodle platform. In general, in modern teaching activities, such an innovative approach will not only serve to improve the quality of teaching, but also save time and provide up-to-date, up-to-date information to improve students ' knowledge and use modern technological programs.

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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