

Uses of LMS in the Teaching Learning Process

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Abstract— *Nearly every part of life now uses technology, including schooling. In today's digital age, "anytime, anywhere" learning is the new buzzword. Therefore, it is necessary to adapt instructional methods to technological advancements. Higher education institutions around the world are increasing using e-learning to provide more training to students due to its advantages of speed, convenience, and consistency. Technology and the Internet have made it possible for education to undergo substantial changes, resulting in the introduction of new teaching and learning techniques. Students today live in the new digital era, when computers, smart phones, games, and online messaging are an integral part of daily life. Online teaching-learning has recently become one of the most popular instructional strategies utilized to advance knowledge. In today's digital age, the use of information and communication technology (ICT) in education, and in particular, the integration of learning management systems (LMS), is crucial. Technology-based learning environments called learning management systems (LMS) assist the delivery of online courses. They provide thorough synchronous and asynchronous services that encourage group learning. The current paper provides a concise overview of e-Learning, LMS, their features, and their function in the current teaching-learning process.*

Indexed Terms— *LMS, ICT, MOODLE, online learning*

I. INTRODUCTION

Assessment plays a crucial role in the education process. It determines much of the work students undertake shapes their approach to learning and is an indication of which aspects of the course are valued most highly. It is easy to become so immersed in the job of teaching that we lose sight of the exact purpose

of a particular element of assessment. There is then the possibility that we are not achieving that purpose, or that we overlook another form of assessment that might be more appropriate. We assess students for quite a range of different reasons - motivation, creating learning opportunities, giving feedback (both to students and staff), to grade, and as a quality, assurance mechanism ~ both for internal and external systems.

Internal assessment alleviates some of the major defects of the external examinations and in place of basing results on the assessment at any one time; it can be as continuous as desired. Internal evaluation enables the teacher to diagnose pupils' difficulties in learning. It points out the potentialities of an individual and provides opportunities to find out the needs, goals, interests, and aptitudes of an individual and shows him the way for his development. This has a motivating effect and this in turn induces him to utilize his resourcefulness which is otherwise cramped.

Because of the above, the issue of 'internal assessment' seemed to be a significant area for research. Because the internal assessment component has recently been implemented at the higher education level in India on the intervention of the University Grants Commission, to what extent has the internal assessment component of LMS proved useful at the higher education level with special reference to Bachelor of Education and Master of Education programs? To find out this problem, some questions have arisen in the mind of the researcher which is as follows:

- Does LMS move students from the traditional classroom system to innovation?
 - E-learning
- E-learning is a developing field that offers a potential instructional medium and a fertile environment for researching how it affects teaching and learning activities. Due to the basic differences between e-learning and face-to-face delivery, there is a greater

need for new features in course building, online evaluation, and interaction. The use of Moodle's numerous features by tutors is to provide engaging and interactive learning experiences for higher education in various colleges of technology. E-learning is the process of delivering education in electronic form via an intranet or Internet network while utilizing a learning management system. There are essentially two ways that are frequently used in e-Learning. To replace conventional training, web-based training, often known as eLearning, is becoming more popular. Through increased economies and efficacy, "E-Learning" is quickly replacing traditional training methods as the preferred method for developing and retaining superior performance capabilities. Purchasing a commercial LMS could be highly expensive for many companies, especially those in developing nations, to host the contents. This essay's goals are to introduce Open-Source software, explain how it might be used to construct a free LMS system, and describe how Assumption University's College of Internet Distance Education did so.

- E-learning environment

Teaching an e-learning environment can help students learn, teach, and most importantly, build a bridge between the teacher and student, the two key players in a classroom. E-learning gives students access to a variety of dynamic, interactive, nonlinear learning settings where they can access a wide range of material (text, pictures, animation), as well as engage in self-directed learning via online communication (e-mail and forums).

E-learning is built on ideas like self-directed learning, independent learning, active learning, problem-based learning, simulations, and work-based learning. The majority of these approaches are founded on constructivism, in which, in Raiser's view, students take control of their learning processes. Motivated, independent, and met cognitively engaged learners are those who can control their learning.

- Asynchronous online learning:

Even when participants cannot be online at the same time, asynchronous online learning, which is frequently enabled by media like email and discussion boards, maintains relationships between students and instructors. It is an essential part of flexible online

learning. Because online courses are asynchronous, many people choose to balance their education with other responsibilities including employment, family, and other commitments. With asynchronous e-learning, students can access an online learning environment at any time to download files or communicate with classmates or instructors. In contrast to synchronous communication, students may take more time to hone their contributions, which are often believed to be more insightful.

- Synchronous E-Learning:

Synchronous E-learning can assist students in the formation of learning communities. It is frequently assisted by media like chat and video conferencing. By asking and receiving questions in real-time, both learners and tutors find synchronous e-learning to be more social and less frustrating. Synchronous sessions make students feel more involved and less alone.

- E-Learning Process:

The e-Learning process may be broken down into four steps.

- A) Analysis of Skill
- B) Material
- C) Learning
- D) Evaluation

- a) Skill analysis:

The learning manager gathers the relevant material information and analyses the learner's current skills and the skills that have been designated as learning goals. The manager then looks for the pertinent information.

- b) Development of the material:

The developer prepares the questions for the exercises and the material's outline and structure. Pages with explanations are incorporated within the material structure.

- c) Learning:

The learner participates in learning that is appropriate for the situation, whether it be individual learning to acquire knowledge or group learning to engage in workshop-style learning.

d) Evaluation:

The learner completes activities and exams with questions created with the learning aim in mind. Utilizing the outcomes of activities and tests, the learning manager evaluates each learner.

II. MOODLE FOR E-LEARNING

Because Moodle is "open source," programmers can modify it to suit their needs. Additionally, it interacts fluidly with a wide variety of web-based tools (Facebook, YouTube, Wikipedia, J Clik, Hot Potatoes, etc.), giving developer's flexibility and creativity. Based on socio-constructivist pedagogy, Moodle was created. Its objective is to offer a set of tools that facilitate an inquiry- and discovery-based method of online learning, in other words. Additionally, it aims to establish a setting that promotes student collaboration as an alternative to or in addition to traditional classroom learning (CP).

The main component of an open-source e-learning platform is Moodle (Modular Object-Oriented Dynamic Learning Environment). Moodle is a course management system (CMS), a piece of software created to assist instructors in producing high-quality online courses. Other names for these e-learning platforms include learning management systems (LMS) and virtual learning environments (VLE) (Kameron, Saskia E., 2006). Moodle offers a fantastic platform for tools and resources for communication. It was developed by computer scientist and educator Martin Dougiamas, who firmly thinks that an educator should develop a CMS rather than an engineer.

Moodle is a template-based platform that makes it simple for us to navigate. The entire page is displayed in a "flat view" style. It is divided into manageable blocks that are arranged according to a theme or weekly schedule. Lessons, tests, assignments, and forums are some of the specific resources available in each section. The items within each section can be simply moved about or concealed, and each block on a page can be configured individually (Williams and Brayon, 2005).

Applications of Moodle:

- 1) It can provide material for trainees and students. The material can be divided according to requirements.
- 2) Assessment of trainees and students.
- 3) Useful for every subject teacher or trainer.
- 4) Moodle is the world's most widely used learning management system.
- 5) Moodle is a massively successful open-source project.
- 6) Core Moodle has a robust set of teaching & learning tools.
- 7) Moodle has thousands of regular community contributors pushing the product forward every day.
- 8) Moodle is free for anyone to download and support, but resources are necessary to maintain the system.

Research Method

In the present study, Survey Method will be used for the research method.

Methods of study

Out of different types of methods, the researcher will be chosen survey method for this study.

Educational Implications

- The internal assessment marks system allows subjecting faculty to know student's knowledge both in theory and practical. Based on this information faculty will guide the students properly.
- A high score of internal marks will increase the overall percentage of marks.
- This study creates awareness among students to identify their learning styles.
- This study enables teachers to think over their teaching strategies and whether the learning materials are tailored to meet the diverse needs of the students.

Suggestions for further research

Suggestions are given which can be considered for future research.

- Research can be conducted on the usage of LMS among students of Arts & Science, Medical and Business institutions.

- Academic achievements of students after using LMS can be studied.
- Apart from the mentioned features in this study, usage of the new emerging features of LMS, and the payable plugging can be included in the study.
- This study can be conducted in different geographical areas so that the findings of the present study can be compared with other regions.

III. CONCLUSION

The purpose of any research is to find a solution scientifically for the problem. Research in the field of education creates a great impact on teaching as well as learning. Particularly, the internet has taken learning into an innovative, digital era to ease students to gain their knowledge anytime, anywhere, and everywhere. They feel that learning with the support of ICT tools is trouble-free, comfortable, trendy, and uniquely interactive. At present, knowledge explosion and technological explosion are the two major challenges in education. So, the students must consider technology integration in learning as the right solution to meet these challenges. In addition, suitable education provided to the students enables them to be better prepared for the knowledge society.

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