Role of Learning Management System (LMS) in Teacher Education

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Abstract -**Learning Management System (LMS) is an online software system that allows for the administration, delivery, and tracking of educational courses, training programs, or learning and development programs. LMS platforms have become increasingly popular in recent years as a tool for managing and organizing educational content, facilitating communication and collaboration, and measuring student progress. In the context of teacher education, LMS systems can play a crucial role in supporting and enhancing teacher training programs. The use of LMS in teacher education has gained significant attention in recent years. LMS is a software application that provides a platform for managing and delivering educational content, as well as tracking student progress and assessing learning outcomes. This paper discusses the role of LMS in teacher education, including its benefits and challenges. In this paper, I covered (1) The Benefits of a LMS in teacher education.(2) Tools for communication and collaboration between instructors and trainees (3) Advantage of LMS for better results in teacher education like Centralized Education in Teacher Education, Supports Active Learning in teacher education, Encourage Continuous Learning, Facilitate Constant Communication, Offers greater Flexibility and Space for Pedagogical Experiment.**

Index Terms- **Teacher Education, Academic Achievement, Aptitude, Learning Management System**

I. INTRODUCTION

Implementing Learning Management System in education allows instructors to keep track of a learner's progress in terms of course completion, identification of knowledge gaps, participation and engagement level, and time is taken to complete the course. According on how effective the system is at that particular educational institution, the instructor may include chat, conferencing, and discussion forums to alleviate the boredom of a class session. This method differs from standard methods or styles of teaching, pupils are more enthusiastic to learn the subject when it is employ. Also, it improves the communication between the instructor and the pupils. Because they can access the learning activities and lectures that have been recorded through the LMS, students won't have to worry about missing out on class lectures and activities. The current study examines how well students use LMS in teacher education. Based on the results of this study, it is possible to demonstrate that perceived usability and convenience of use are significant determinants of students' satisfaction with the MOODLE LMS. This study will also mark Role LMS in teacher education. Thereafter, any similar system would incorporate these constructs to improve the teacher education.

Benefits of LMS in teacher education-:
It is ability to provide a centralized platform for course content, resources, and assignments. This can be especially useful for teacher training programs that have multiple instructors, as it allows for a consistent, organized approach to course content delivery. Additionally, LMS can provide access to a range of multimedia resources, including videos, interactive simulations, and virtual classrooms, that can be used to enhance the learning experience for teacher trainees.

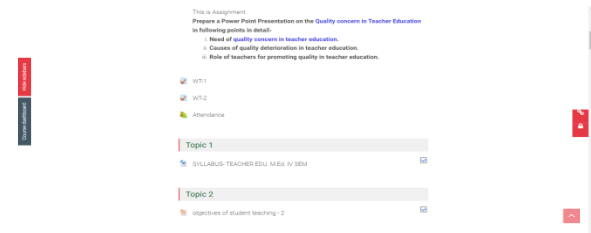Course Content-: Like study material, assignment, Exams etc.

Fig no.1

Multimedia resource-: Like videos, interactive simulations, and virtual classrooms.
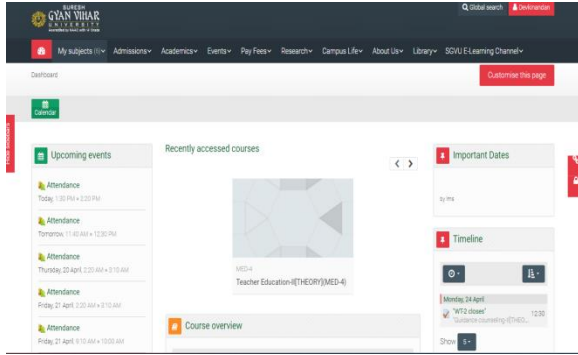

Fig no.2

Tools for communication and collaboration between instructors and trainees-: LMS also offer a range of tools for communication and collaboration between instructors and trainees. Discussion forums, chat rooms, and messaging systems can be used to facilitate discussions and collaboration between trainees, while features such as assignment submission, grading, and feedback tools can streamline the process of course assessment and evaluation. LMS also offer analytics and reporting features, allowing instructors to track student progress, identify areas of weakness, and adjust course content as needed.

However, there are also challenges associated with the use of LMS in teacher education. One of the main challenges is the need for technical skills and support. Many teachers may not be familiar with the technology and require training to use the LMS effectively. Another challenge is the time and effort required to develop and deliver high-quality learning content. In addition, there is a risk of over-reliance on LMS, which may result in the neglect of other important aspects of teacher education, such as face-to-face interaction and practical experience.
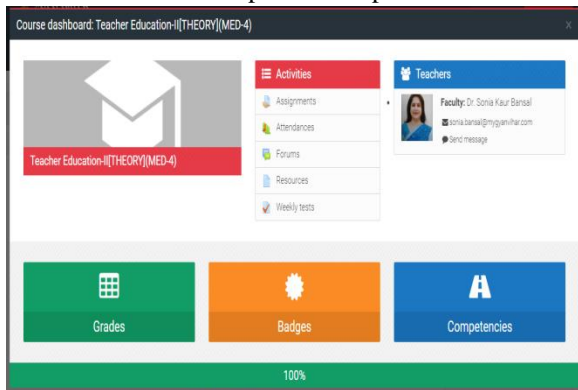

Fig no-3

LMS also offer a range of administrative benefits for teacher education programs. These systems can automate tasks such as course registration, payment processing, and certification management, freeing up administrative staff to focus on other tasks. Additionally, LMS can provide valuable data on course completion rates, student satisfaction levels, and other key metrics that can be used to evaluate the effectiveness of teacher training programs.

Student Teachers can check their own progress through LMS in education:-

Follow this steps.
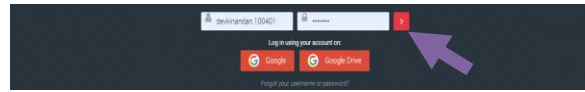
Step-1

Login to account from here.

Fig no.-4

Step-2

Go to account profile.

Fig no.-5

Step-3

Click to grades.

Fig no.6
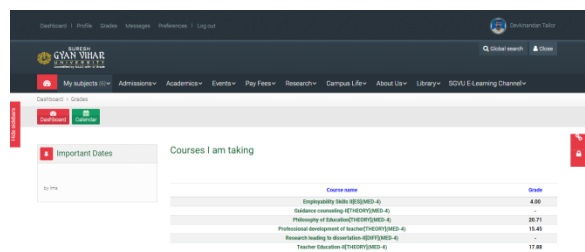
Now your progress is in front of you.

Fig no.-7

LMS Play an Important role in teacher education by providing a platform for teachers to manage and deliver content, facilitate communication and collaboration, and assess student Learning. Here are some ways in which LMS can benefit teacher education:

Course Management-:

LMS can help teachers organize and manage their courses more efficiently. Teachers can create course syllabi, schedules, and assignments, and students can access these materials online. This can save time and resources, and ensure that students have access to course materials at all times.

Communication and Collaboration-:

LMS can facilitate communication and collaboration among teachers and students. Teachers can create discussion forums, chat rooms, and messaging tools to enable students to interact with each other and with the teacher. This can help build a sense of community and engagement in the course.

Assessment and Feedback-:

LMS can help teachers assess student learning and provide feedback. Teachers can create quizzes, assignments, and exams that are automatically graded, and provide feedback to students on their performance. This can help teachers identify areas where students need additional support and provide personalized feedback to each student.

Personalization-:

LMS can be used to personalize learning for each student. Teachers can create adaptive learning paths that are tailored to each student's learning style, pace, and needs. This can help students learn more effectively and efficiently, and enable teachers to provide targeted support where needed.

Data Analytics-:

LMS can provide teachers with data analytics tools that enable them to track student progress and identify areas for improvement. Teachers can use this data to adjust their teaching strategies and provide targeted support to students who are struggling.

II. REVIEW OF RELATED LITERATURE

Marilyn Cochran-Smith(October2005) publish an article on "The New Teacher Education: for better or worse" This article offers a reading of the current state of the field of teacher education, identifying current reforms, emerging trends, and new underlying premises. The author argues that a "new teacher education" has been emerging with three closely coupled pieces: It is constructed as a public policy problem, based on research and evidence, and driven by outcomes. Illustrating and critiquing each of these pieces, the article makes the case that the new teacher education is both for the better and for the worse. The article concludes that education scholars who care about public education must challenge the narrowest aspects of the emerging new teacher education, building on its most promising aspects and working with others to change the terms of the debate.

Gary Sykes, Tom Bird,and Mary Kennedy (November 2010) publish an article on the "Teacher Education : its problems and some prospect" Based on an analysis of occupational competence in teaching and teacher education, this article draws together a set of dilemmas that face the field, arguing that an occupational analysis is needed to complement the more common institutional analysis of teacher education. Then, this analysis is used to evaluate the prospects of the reforms that currently are dominant in the policy discourse of teacher education. The article concludes with thoughts on some promising directions for the improvement of the field of teacher education.

Muhammad Arshad (Aug 2020) publish an article on "Academic Semester Activities by Learning Management System during COVID-19 Pandemic: A case of Jazan University" The COVID-19 has led to the shutdown of educational institutions around the world. Over 1.2 billion students are out of school globally. As a result of COVID-19, the education sector is facing a huge impact on universities forcing their teaching to shift to e-learning and mixed learning modes. During the current emergency, he LMS has been a vital resource for virtually all higher education institutions, and a driving force in online learning. After the announcement of University closures, Saudi Arabia is one of the nation where students are worried and going through a phase of learning, where they have no tutor, a lot of course work and only themselves to help them study. Jazan University transforms to E-learning mode of teaching after the suspension of regular classes. The primary focus of this study is to examine the academic semester activities of LMS, Blackboard, amongst faculty members of the Faculty

of Arts and Humanities at Jazan University, Kingdom of Saudi Arabia. Furthermore, how the faculty members utilize the learning management system to support their students in the learning process, assessment and include them in the content in hand while they are teaching from home in the midst of the epidemic. The main outcomes of this study are: Role in the achievement of instructive information online, Suitable support provided to the students by faculty and teaching assistants and Contingency strategy for addressing unforeseen online educational system issues.

III. LEARNING MANAGEMENT SYSTEM (LMS) IN TEACHER EDUCATION

LMS is software design to manage and support efficient Learning. It is a complete teaching solution where instructors can upload course content, learners can access it through their profiles.

The system supports both face-to-face learning and virtual classes. It also facilitates communication, tracks progress, and keeps records of all important data of students. While helps the instructors work efficiently, it also caters to the needs of the Learners. Overall, it I a system that assists everyone involved in the teaching process.

IV. ADVANTAGE OF LEARNING MANAGEMENT SYSTEM (LMS) FOR BETTER RESULTS IN TEACHER EDUCATION

Centralized Education in Teacher Education

The primary advantage of any LMS is its centralized source of learning. It allows teacher education to save all e-learning content in one place instead of scattering it in different places.

This helps to both reduce the risk of losing important data/content and increase the overall efficiency of the system.

Supports Active Learning in teacher education

Any learning experience can only be meaningful if its relevant and authentic. An LMS allows learners to engage in hands-on, relevant, and real-word activities for a fulfilling Learning Experience.

Encourage Continuous Learning

LMS ensure that the content is readily available for both student and faculty members. Instructors can also continue to engage with materials on a regular basis and support proactive Learning strategies.

Facilitate Constant Communication

LMS gives an opportunity for educators to share pedagogical resources, have one-to-one discussions with peers, and receive guided expert support through online discussions.

Offers greater Flexibility and Space for Pedagogical Experiment

Unlike traditional classroom-based teaching, where the instructor follows a prescribed approach, online methods of teaching with the help of Learning Management System allow instructors to Experiment with the application of Various Learning Techniques such as blended Learning, flipped Learning, social Learning, rapid Learning, storytelling, and more depending on what works bet for the Learners.

V. CONCLUSION

In conclusion, Learning Management System (LMS) can play a crucial role in teacher education by providing a platform for teachers to access and create educational resources, manage their courses and interact with their students. By using LMS, teachers can also engage in ongoing professional development and collaborative learning with their peers.

The use of LMS in teacher education can help to promote better learning outcomes, enhance teacher effectiveness, and improve the overall quality of education. Teachers can use LMS to create and share lesson plans, quizzes, and other educational resources with their students, and track their progress.

Moreover, LMS can also facilitate communication between teachers, students, and administrators, which can lead to a more effective and efficient learning environment. Teachers can use LMS to provide feedback to their students, monitor their progress, and identify areas for improvement.

Overall, LMS can be a valuable tool for teacher education, providing a platform for ongoing learning and professional development, and enhancing the effectiveness of teaching and learning. Its role in teacher education is becoming increasingly important as technology continues to advance and education moves towards a more digital and blended learning environment. LMS can be a powerful tool in teacher education, helping teachers to manage courses more efficiently, facilitate communication and collaboration, assess student learning, personalize learning, and use data analytics to improve their teaching strategies.

REFERENCES

[1] Arshad, Muhammad & Almufarreh, Ahmad & Noaman, Khaled & Saeed, Muhammad. (2020). Academic Semester Activities by LMS during COVID-19 Pandemic: A Case of Jazan University. 11. 213-219.

[2] Gary Sykes, Tom Bird, and Mary Kennedy (November 2010) "Teacher Education : its problems and some prospect" Volume 61, Issue 5 https://doi.org/10.1177/0022487110375804

[3] Marilyn Cochran-Smith (October 2005) The New Teacher Education: For Better or For Worse Volume 34, Issue 7 https://doi.org/10.3102/0013189X034007003

[4] Meena Kusum Lata (2022) a study on the problem faced by school teacher in sifting to online teaching mode of education , Volume 10,Issue 4, Aug-September 2022 PIONEER RESEARCH & DEVELOPMENT GROUP (www.prdg.org)

[5] Sharma, Avdhesh Kumar & Singh, Dr. Roma & Chopra, Dr. Rajani & Bansal, Dr.Sonia Kaur (2022). A study of parent's opinions in context of the effects of online teaching-learning on learning at Primary level in Jaipur. 2. 35-44

[6] Chaturvedi, Veenu & Bansal, Dr.Sonia Kaur & Sharma Rajesh kumar (2020) Significant of Experimental Research in Educational Technology : a Review Study ADALYA JOURNAL Volume 9, Issue 4, April 2020 ISSN NO: 1301-2746 http://adalyajournal.com/ https://doi.org/10.37896/aj9.4/066

[7] Bansal, Dr Sonia Kaur, Sharma nikita 2021 Ilkogretim Online. 2021, Vol. 20 Issue 5, p1445-1449. 5p.

[8] Kaur Bansal, Dr. (2021) A study of decision making of teacher educators. 10.37896/aj9.4/059.

[9] Kaur Bansal, Dr. (2021) Dealing with Job Burnout in Higher Education. 20. 2083-2087. 10.17051/ilkonline.2021.04.237.

[10] Bansal, Dr Sonia Kaur & Singh, Ajaydeep(2022) A STUDY OF STRESS RELATED TO MENTAL HEALTH AMONG M.ED. TRAINEES DURING PANDEMIC. SDES-International Journal of Interdisciplinary Research. 3. 473-475. 10.47997/SDES-IJIR/3.5.2022.473-475.

[11] Bansal, Dr Sonia Kaur & Mahawar, Khamchand (2022) AWARENESS OF LMS ON TRAINING OFB.ED. STUDENTSDURING PANDEMIC. SDES-International Journal of Interdisciplinary Research. 3. 493-496. 10.47997/SDES-IJIR/3.5.2022.493-496.