LEARNING MANAGEMENT SYSTEM IN EDUCATION: BENEFITS AND DRAWBACKS

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ABSTRACT

The study is descriptive survey research designed to investigate the learning management system in education: benefits and drawbacks. The area of the study is Rehama Academy School, Rumuolumeni, Port Harcourt, Rivers State. The population of the study comprises 25 teachers in Rehama Academy School. A sample of 20 teachers was involved in the study. A purposive sampling technique was applied in the selection process. The Instrument used for the study to collect data from respondents is a structured questionnaire titled learning management system in education: benefits and drawbacks (LMSEBD) with 30-item questions. The reliability coefficient of 0.64 was obtained using Pearson product-moment correlation. Mean and Standard Deviation answered the research question while the t-test answered the hypothesis. The study found that the t-test learning management system is not just for eLearning, it is capable of housing videos, slide decks, written instruction, and various other learning materials in a user-friendly, centralized location. Based on the findings, the researcher recommends that With the use of a learning management system, students can maintain their independence, excitement, and motivation.

I.INTRODUCTION

The development of blended and hybrid learning has significantly altered the typical classroom experience. With blended learning, students can attend lectures in person and enhance their education with readings from the LMS Afzal [1] Readings, notes, lectures that were videotaped, lesson plans, and much more could be included in the learning management system content. However, hybrid learning gives students even more flexibility by letting them attend classes in person or online and supplement that with readings from an LMS Imed [2]. You can access the online courses directly from the LMS. Students are free to choose how they want to show up for class. Due to the flexibility, it is simpler for students to maintain their attendance, and should the school need to close for any reason, the course schedule is not disrupted.

The fact that a learning management system turns into a consolidated platform with all the course materials required for any given course is one of its best characteristics, according to O'Connor [3]. The learning process for all students is streamlined by having a single, well-managed database. From a single site, students may upload coursework and take tests. Learning management system (LMS)-an online integrated program is used for designing, delivering, monitoring, and reporting various educational courses and its outcomes. The same can be used for supporting conventional face-to-face instruction and for combined /hybrid and online learning. Learning management system software is used in schools to organize, carry out, facilitate, evaluate, and keep track of students' progress Alzahrani [4]. All of these activities take place behind a virtual wall that offers some level of privacy, security, and authentication. With the help of LMS, educators can effectively and efficiently develop courses, deliver instruction and facilitate communication between students. It can also foster teamwork between students, review student success, and provide additional learning resources for support. Thereby it helps in assisting the schools in maintaining the integrity of their educational programs. This data can be evaluated to find learning trends and gaps that require remedial student intervention and class improvement as a whole. In order to plan for improvement and pursue data-driven professional development, leaders can access reports on class and overall school performance Vaughn [5]. Within   LMS an instructor/ teacher can combine/align standards with curriculum/resources and assessments. With the LMS teachers can also track students' progress and activities. In addition, other performance outcomes

of targeted, individualized student learning objectives as well as broad school improvement initiatives/strategies can also be monitored. LMS can help Teachers to determine the specific learning goals for each student and give them appropriate advice on areas that need to be developed. [6].

Additionally, an LMS gives teachers access to a single, central site for organizing lessons and assessments, student feedback portals, parent and family reports, and end-of-course grades, to mention a few. In the term Learning Management System(LMS), Learning represents that it is a tool for delivering educational courses or training programs. Management represents that it aids in course organization (create them, change them, assign them to students, grade them, etc.). It offers options for managing the teaching and learning process and combines different learning resources [7].While adopting an LMS has several advantages, including cost savings and increased security, its primary function is to deliver and monitor learning and eLearning efforts in one location.

According to Brush [8], the LMS's appearance and functionality will differ depending on the goals of the firm, but the LMS's capabilities should enable learning and development advantages to streamline the following procedures:

• Course administration; • Communication between the teacher and the learner;

• Tracking and analysis of user data; Performance-based tasks, such as skill gap analysis. Learning professionals can use specific data items to confirm that individual students are attaining the necessary learning objectives, which is another advantage that links to the goal of an LMS. Every instructor is aware that students in both traditional and online courses will experience a variety of successes and setbacks.

II.THE PROBLEM OF THE STUDY

Even though a learning management system is intended to make things simpler for everyone, it still requires administration in order to work well. The frequency of technical failures, bandwidth concerns, and boring lectures have all contributed to a sharp decline in online attendance. The majority of students find online learning tedious and frequently lament their lack of drive to finish a course. As a result, the paper explores the advantages and disadvantages of learning management systems in education.

III.AIM AND OBJECTIVES OF THE STUDY

The aim of the study is to examine the Learning management system in education: Benefits and drawbacks. Specifically, the study intends to:

- Examine the benefits of using learning management systems for the teaching and learning of computer studies in Rehama Academy school
- Describe the uses of the learning management system for teaching and learning computer studies in Rehama Academy school
- Investigate the drawbacks of the learning management system in teaching and learning computer studies in Rehama Academy school

Research Questions

1. What are the benefits of using learning management systems for teaching and learning of computer studies in Rehama Academy school?
2. What are the uses of learning management systems for teaching and learning of computer studies in Rehama Academy school?
3. Are there drawbacks to using learning management systems for teaching and learning computers in Rehama Academy school?

Hypothesis

1. There is no significant difference between male and female teachers using the learning management system for teaching and learning computer studies in Rehama Academy school

IV Methodology

The study is descriptive survey research designed to investigate the learning management system in education: benefits and drawbacks. The area of the study is Rehama Academy School, Rumuolumeni, Port Harcourt, Rivers State. The population of the study comprises 25 teachers in Rehama Academy School. A sample of 20 teachers was involved in the study. A purposive sampling technique was applied in the selection process. The Instrument used for the study to collect data from respondents is a structured questionnaire titled learning management system in education: benefits and drawbacks (LMSEBD) with 30-item questions. The reliability coefficient of 0.64 was obtained using Pearson product-moment correlation. Mean and Standard Deviation answered the research question while t-test answered the hypothesis.

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V.RESULTS

Research Question 1: What are the benefits of using learning management systems for teaching and learning of computer studies at Rehama Academy school?

Benefits of using LMS

S/N	Items Benefits of using LMS	SA	A	D	SD	Mean	SD	No of Respondents
1.	It is user-friendly and very effective.	10	8	2	-	3.4	0.66	20
2.	LMS saves time for management, educators, and students by providing access to their accounts online so that they all can work from anywhere in the world.	15	4	1	-	3.7	0.55	20
3.	It is easy to manage users, their roles, courses, teachers, and facilities and generate reports.	12	8	-	-	3.6	0.48	20
4.	Systems provide reminders to the end users such as delivery dates, test dates, answering questions, etc.	16	3	1	-	3.8	0.53	20
5.	There are a flexible set, of course, activities-forums, contests, glossaries, resources, options, surveys, assignments, chats, and workshops to choose from	18	1	1	-	3.9	0.47	20
6.	A learning management system offers several types of communication tools.	11	7	2	-	3.5	0.67	20
7.	LMS enables learning and development pros to supplement learner information with important course completion data.	14	4	1	1	3.6	0.80	20
8.	LMS is not only for e-learning, but it can also be used to store videos, slide decks, written instruction, and many learning resources. .	18	2	-	-	3.9	0.30	20
9.	Learning management systems are remote or mobile-ready to ensure learners have access to learning resources at any time from anywhere in the world.	13	6	1	-	3.6	0.58	20
10.	With the help of LMS, one can track and record training activities and also provide notifications to the organization if any issue arises.	19	1	-	-	3.9	0.22	20
	Average Mean					**3.69**	**0.52**	

Entries in the table above show that students accepted all the items as the benefits of using a learning management system for teaching and learning of computer studies at Rehama Academy School. This is because all the item mean was above the criterion mean of 2.50. An overall mean of 3.69 suggests that the learning management system is not just for eLearning, it is capable of housing videos, slide decks, written instruction, and various other learning materials in a user-friendly, centralized location.

Research Question 2: What are the uses of learning management systems for teaching and learning of computer studies in Rehama Academy school?

Uses of Learning Management System

S/N	Items Uses of LMS	SA	A	D	SD	Mean	SD	No of Respondents
1.	A learning management system helps schools maintain the integrity of their educational programs by enabling educators to effectively and efficiently develop courses, deliver instruction, facilitate communication, foster collaboration between students, assess student success, and provide other learning resources for support.	12	4	3	1	3.4	0.91	20
2.	Schools use learning management system software to plan, implement, facilitate, assess, and monitor student learning	8	10	2	-	3.3	0.64	20
3.	It can be used to support traditional face-to-face instruction, as well as blended/hybrid and distance learning environments.	7	13	-	-	3.4	0.47	20
4.	Teachers can set the targeted individual student's learning objectives and provide them with immediate feedback on areas needing improvement.	17	3	-	-	3.8	0.40	20
5.	An LMS also provides teachers with one central location for lesson and assessment planning, student feedback portals, parent and family reports, end-of-course grades	16	3	1	-	3.7	0.53	20
6.	It provides tools to manage the teaching and learning process and integrates various learning resources together	15	3	2	-	3.6	0.65	20
7.	A learning management system can provide instant feedback to a student.	14	4	2	-	3.6	0.66	20
8.	LMS gives educators a provision to store important documents like the course syllabus so that students can go through the required documents whenever they need them.	19	1	-	-	3.9	0.22	20
9.	LMS help learning professionals use specific data elements to ensure individual learners meet the desired learning objectives.	18	1	1	-	3.8	0.48	20
10.	Using a learning management system ensures that each student can easily access tools without installing additional software programs, and that all students are using compatible communications methods	11	7	2	-	3.5	0.67	20
	Average Mean					**3.60**	**0.56**	

Entries in the table above show that students accepted all the items as the way they use the learning management system for teaching and learning of computer studies in Rehama Academy School. This is because all the item mean was above the criterion mean of 2.50. An overall mean of 3.60 suggests that the learning management system gives educators a provision to store important documents like the course syllabus so that students can go through the required documents whenever they need them.

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Research Question 3: Are there drawbacks to using learning management systems for teaching and learning of computers in Rehama Academy school?

Drawbacks of using Learning Management System

S/N	Items Drawbacks of using LMS	SA	A	D	SD	Mean	SD	No of Respondents
1.	LMS does not accommodate a complete range of teaching styles nor do they provide tools for specialized pedagogical practices, e.g., audio discussion boards	10	5	5	-	3.2	0.83	20
2.	Managing and administering an institution-wide LMS requires a reasonably high level of technical expertise that most classroom teachers do not possess.	5	10	4	1	2.9	0.80	20
3.	Some teaching staff has poor computer and information literacy skills and little of the information management skills needed to effectively use LMS to support their teaching.	11	7	2	-	3.4	0.67	20
4.	It is a challenge for many teachers to design and organize a mix of learning activities that are appropriate to student needs, teacher skills and style, and institutional technical capacity	17	2	1	-	3.8	0.50	20
5.	Ineffective training for teachers	9	10	1	-	3.4	0.58	20
6.	Problems with personalization	13	6	1	-	3.6	0.58	20
7.	Lack of PowerPoint integration	7	11	2	-	3.3	0.62	20
8.	Problems with course management and content	6	10	4	-	3.1	0.70	20
9.	Issues with user interaction	18	1	1	-	3.8	0.47	20
10.	Not setting clear goals	12	5	2	1	3.4	0.86	20
	Average Mean					**3.39**	**0.66**	

Entries in the table above show that students accepted all the items as the challenges they face while using a learning management system for teaching and learning of computer studies at Rehama Academy School. This is because all the item mean was above the criterion mean of 2.50. An overall mean of 3.39 suggests that it is a challenge for many teachers to design and organize a mix of learning activities that are appropriate to student needs, teacher skills and style, and institutional technical capacity.

Hypothesis

t-test of difference between male and female teachers' use of learning management system in Rehama Academy School

Group	Mean	Sum of squared deviation	N	Df	Standard Error	t (Cal)	t (Tab)
Boys (X1)	6.8	15.6	10	18	0.51	7.06	2.10
Girls (X2)	3.2	7.6	10				

The calculated value of t is less than the tabular value (t (cal< t(tab)), hence the hypothesis is rejected. This means that the male teachers' usage of the learning management system is greater than the female teacher's usage. Therefore, there is a significant difference in their mean score usage of the learning management system in Rehama Academy School, X_1(6.8) and X_2(7.6).

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VI.DISCUSSION

Research Question 1: What are the benefits of using learning management systems for teaching and learning of computer studies at Rehama Academy school?

From the present study, it is found that LMS is not only for eLearning, but it is also capable of storing a wide range of learning materials like slide decks, videos, written instructions, and other learning materials in an easily accessible centralized place.

The findings of the study are in line with those of Thouraya [9] who discovered that the simplicity of setting up and delivering online courses, administering assessments online, having access to and availability of learning materials, the potential for students and faculty to save time and money, communication, and interactivity.

The results of the study concur with those of Vaughn [5] who discovered that instructors should balance active learning with the use of technical resources from learning management systems and the use of recommendations from the appropriate curriculum.

Research Question 2: What are the uses of learning management systems for teaching and learning of computer studies in Rehama Academy school?

The study found that the learning management system gives educators a provision to store important documents like the course syllabus so that students can go through the required documents whenever they need them.

The findings of the study concur with those of Joel [10] who discovered that institutions might employ social media platforms to supplement learning management system capabilities in order to improve usage.

The findings of the study concur with those of Uthman & Ahmed [11], who discovered that students' motivation to use learning management systems had a positive impact on learning as sustainability participation during the COVID-19 pandemic.

Research Question 3: Are there drawbacks to using learning management systems for teaching and learning computers in Rehama Academy school?

The study found that it is a challenge for many teachers to design and organize a mix of learning activities that are appropriate to student needs,

teacher skills and style, and institutional technical capacity.

The findings of the study concur with those of Ahmed et al[12] who discovered that administrative features of learning management systems, such as files and announcements, are utilized far more frequently than sophisticated interactive learning activities.

The findings of the study concur with those of Ibrahim & Andy [13] who discovered that higher education institutions' success may be impacted by their failure to install an efficient learning management system.

VII.CONCLUSIONS

The following conclusions were made by the researcher:

1. The study found that the learning management system is not just for eLearning, it is capable of housing videos, slide decks, written instruction, and various other learning materials in a user-friendly, centralized location.

2. LMS helps the teacher to store important documents like the course syllabus, which will be beneficial for the students since they can go through the necessary documents when they are in need of them.

3. it is a challenge for many teachers to design and organize a mix of learning activities that are appropriate to student needs, teacher skills and style, and institutional technical capacity.

VIII.RECOMMENDATIONS

Based on the conclusions, the researcher recommends the following:

1. With the use of a learning management system, students can maintain their independence, excitement, and motivation.

2. To aid researchers, educational stakeholders should locate scientific papers to support their contributions to learning management systems.

3. Teachers should make sure to regularly use learning management systems so they can plan and develop lessons that are appropriate for their students' needs.

REFERENCES

[1] M., Afzal, 10 Benefits of learning management system',edly.io/blog (2021)

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https://edly.io/blog/10-benefits-of-learning-management-systems-for-higher-education-institutions/

[2] B., Imed, Learning management system for education: features, benefits and challenges',. (2020) https://research.com/software/learning-management-systems-for-education.

[3] M., O'Connor, 7 Benefits of using learning management system', synergy-learning.com/blog(2020) https://synergy-learning.com/blog/7-top-benefits-of-using-a-learning-management-system-lms/

[4] A.A., Alzahrani, The effect of distance learning delivering methods on students' performance and perception. International journal for research in education 43(1) . (2019), 12-21.

[5] M.B., Vaughn, Learning management system (LMS) use with online instruction. International journal in education. 4(1) (2020), 68-72.

[6] T.Sander, 10 biggest disadvantages of E-learning', e-student.org(2022). https://e-student.org/disadvantages-of-e-learning/

[7] M.M., Althobaiti, & P., Mayhew. 'Assessing the usability of learning management system: user experience study', International conference on E-learning; E-education and online training. (2015), PP 9-18. Springer international publishing.

[8] K., Brush, Learning management system. (2019).https://www.techtarget.com/searchcio/definition/learning-management-system

[9] S., Thouraya, Learning management system in education: opportunities and challenges. International journal of innovative technology and exploring engineering,. 8(12) (2019)664-667.

[10] S.M., Joel, 'Learning management system success: Increasing learning management system usage in higher education in sub-sahara Africa', International journal of education and development using information and communication technology. 11(2),(2015)51-64.

[11] A., Uthman, & A., Ahmed, Application of learning management system (LMS) during the COVID-19 pandemic: A sustainable acceptance model of the expansion technology approach. Journal of sustainability. 13(2)(2012)10991-10999.

[12] A., Ahmed, A.S., Salah, & R., Alhajri, Prospects and challenges of learning management systems in higher education. International journal of advanced computer science and applications, 11(12),(2020)73-79.

[13] W., Ibrahim, & S., Andy, 'Utilization and challenges of the learning management systems in the higher education institutions in Maldives: The lecturers' and students' perspectives', International journal of information technology & management information system. 10(1),(2019) 1-10.