

Benefits of virtual learning's using LMS

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Virtual Learning Environments (VLEs) are web-based learning environments. This includes reading materials, online courses, instructive websites with independent skill tests, and other online environments that serve as an add-on to the curriculum. Student happiness with virtual learning is influenced by several factors. Students consider collaboration to be another crucial component of the virtual learning environment. These virtual learnings has become one of the easiest ways of teaching for school institutes and also one of the easiest ways of learning to the students the usage of learning management systems in this virtual learning environment has started a lot across the world where students have an option to adapt for the online environment and do their studies through learning management system where it will act as a 3rd party environment to make sure the student records has been progressed or analyzed properly. There are not a lot of studies which have spoken about the benefits of using these learning management systems so in the study I'll be exploring what are the benefits of using these learning management systems in the virtual learning environment. To understand the different types of benefits that has been implicated by learning management systems through virtual learning To understand the pros of lms as there are lot of information regarding this research has been provided by different digital libraries so I will be using systematically literature review methodology [16]. How will be using different steps to do this process where I'll be using inclusion and exclusion criteria to filter the results that has been provided by the search process and then I will add the results using data analysis and extraction techniques.. After the filtering and applying criteria I got 11 journal for my study and then I'll be applying analysis and extraction of data techniques where I'll be having few data points to search in this level journals and then derive the results finally the results turned out to be the benefits of LMS in the virtual environment are centralized content management, scalability, great tracker academic tracker, easy student and teacher interactions and collaborative learnings. To conclude this study, the usage of learning management system has make both the students, teachers and the education institutions way easier so that it provides a lot of functionalities for the students and the teachers so that they'll improvise themselves in a long run either through giving feedbacks and following different study strategies.

CCS CONCEPTS • LMS • Virtual Learning •

Additional Keywords and Phrases: grade tracker, boost learning

1 INTRODUCTION

Effective use of appropriate media to promote interaction between teachers and students as well as among students can have a major impact on achieving the goal of effective outcomes for learning in courses [1]. Support for teaching, learning, and evaluation is the main goal, with an emphasis on coordinating, creating, and enriching these activities. The potential advantages include improved communication, enhanced engagement, and the use of synchronous as well as asynchronous collaborative learning methods. They also encourage the exchange of knowledge across international borders, a common enthusiasm, and the continual improvement of knowledge [2].

In the past, during the pandemic situation of covid 19, most people were used to virtual learning platforms because of the accessibility of online classes, and they gained information though they were in their own places [3]. However, there may be some difficulties due to the internet connectivity issues [4]. Acquiring abilities , principles, and attitudes. To increase students' capacity for learning, a range of approaches to instruction have been used to transfer knowledge. Virtual learning is a form of distributed education inside the traditional framework, where both in-person and online learning are integral to the educational process [5].

Learning management systems has come into picture while interacting with the virtual learnings where these systems made everything easy when it comes to usage of tracking the assessment scores or tracking the academics by the students and providing feedbacks from the students to the teacher raw vice versa [6]. This learning management system has made great impact when it comes to the virtual learning environment where students can easily access everything from their own and everything can be uploaded in a single environment single application from class nodes to the homework and it's also easy for the teacher to score their homework and provide assessments and scores as soon as possible [7].

Researchers have explored studies such as The use of virtual learning has revolutionized teaching methods in such a way that they have been using artificial intelligence applications in these virtual learning platforms [8]. One of these studies concludes that deficiency of using online platforms have been increased and that have made a great impact on student grades [9]. One of the studies concludes that the usage of these virtual learning platforms and virtual learning services has made great impact and which helps the teachers to reduce their workload and the usage of different interfaces makes the students to allure towards them[10].These virtual learnings has become one of the easiest ways of teaching for school institutes and also one of the easiest ways of learning to the students the usage of learning management systems in this virtual learning environment has started a lot across the world where students have an option to adapt for the online environment and do their studies through learning management system where it will act as a 3rd party environment to make sure the student records has been progressed or analyzed properly. There are not a lot of studies which have spoken about the outcomes of using these lms so in the study I'll be exploring what are the pros of using these lms s in the virtual learning environment.

1.1 Research Question

What are the advantages of learning management systems (LMS) in virtual learning environments?

2 METHODOLOGY

To understand the pros of learning management system(LMS) as there are lot of information regarding this research has been provided by different digital libraries so I will be using systematically literature review methodology [16]. How will be using different steps to do this process where I'll be using inclusion and exclusion criteria to filter the results that has been provided by the search process and then I will add the results using data analysis and extraction techniques.

2.1 Inclusion and Exclusion Criteria

Inclusion Criteria

- The papers which have information regarding different types of advantages of virtual learning and impacts on the kids.

- Articles which have information regarding what is a different type of activities do learning management systems do.
- Journal which has information regarding what does the user satisfaction while using those activities provided by learning management system at the end of the day.

Exclusion Criteria

- Journals which don't have information regarding learning management systems.
- Journals which are not from the past five years
- The research papers which don't have information with respect to virtual learnings.

2.2 Search Process

To derive the sample the first step I'll be following in this study is to search the related articles from the digital libraries of acm and iee. I considered these libraries are because of its resilience and quality of this papers because these papers will be peer reviewed by the experts. The queries that I'll be using to extract the journals are below mentioned.

ACM QUERY:

{“Title”: (LMS) AND “Title” : (Virtual learning)}

filter: {Publication Date : Last 5 Years }

From this query I got 234 papers while applying the keywords and then the filter for the title session of the papers

IEEE QUERY: { (“All Metadata”: LMS) AND (“All Metadata” : Virtual Learning)

specific range (2018-2023)}

From the above query I use the key words an the search happen for metadata and finally I got 120 queries.

There are totally 354 different types of journals that I have acquired by doing this query search in both the digital libraries now to filter out the sample I will be using the criteria that have used in 2.1 section of this paper I will be going through each paper then I will be playing this criteria and considering the papers to study only if the paper has satisfied all of the criteria or most of the criteria. After filtering and I got 10 papers at the end for my study now the next step is quality assessment of paper before fixing the sample the quality assessment is done by this series of steps where firstly I will be understanding whether the paper have proper citations which has been mentioned by more number of peoples, the paper that has more information regarding the usage of LMS in diary life, and finally I'll be looking into if the paper does have information regarding the gentle impact of learning management systems on the education system. After doing all this holiday assessment it came out to be all the 10 papers are having high caliber so the samples for this study are 10.

2.3 Extracting Data and Analysis

After applying the filtering using criteria and quality assessment I have 10 journals which are legit and useful for this study the next up is extracting data from these journals the datas are extracted using few data points that are relevant to the research question which answers about benefits of using learning management system where I will be using this following statements of data points to derive the data firstly what is the different types of impacts that lms has created on virtual learning platforms karma what are the general functionalities of lms in virtual learning platforms and finally what are the different types of emotions that users have after using learning management systems. By using those data points I will be extracting data and then I will be analyzing the data which where I will be deriving the results whether they are associated to the research question.

3 RESULTS

Following the implementation of research methodology which is system model literature research methodology for this study and then getting the sample out of the downloaded articles then applying data extraction strategy to extract data and then realize the results by using the data analysis technique. And the way that I have derived the results from the data extracted from the journals and the calear procedure have mentioned below.

One of the publishers mentioned in their journals in a way that “virtual learning platforms has been impacting the children in LMS because they can analyze the data and their assessments course [17]” the use of elements were reduced and dosed activities such as understanding the grades tracking the records and making student and teacher interaction easy and “the students feel so comfortable using this to understand the grades and tracking their academics [18]”

From the above quotations these are the three data points that I have extracted using the statements that I have mentioned in the 2.4 section of this paper and from this there is clearly mentioned about what are the different types of lms activities and how students are feeling positive about few of the activities and here the students feeling that they are advantages when it comes to the gradient and tracking their assessments. The result that I can derive after applying analysis is the benefits that has been mentioned in these examples for learning management system are tracking rates and tracking the academics.

As per the example it is the way that I have used to extract the data from data analysis and derive the results I’ll be using the same procedure for the subsequent sample and then I will be calculating the results and the results will be mentioned below

Table 1: ITSM APIs

Benefits of LMS	Description
centralized content management	Used to give content so easily for the classes from videos, materials and notes
Scalability	Easy to use and makes the accommodation for larger groups
Grade tracker	Easy for students and teachers to track and edit their grades and also providing feed back
Academic Tracker	One stop service for all the reports subject wise and graphs to show the progress to realize the outcomes
Easy student and teacher interaction	Students and teachers can connect so easily so that it is easy for them make sure everything is smooth
Collaborative learning	Students and teachers can work together collaboratively and share the knowledge to improvise their economic understanding.

Ask for the boat table that I have derived from the data points and data extracted from the journals the results of this study are the benefits of LMS in the virtual environment are centralized content management, scalability, great tracker academic tracker, easy student and teacher interactions and collaborative learnings.

4 DISSCUSSIONS

After applying systematic literature review for the study and the sample then generated data points through extracting data from the sample and analyzing the data extracted and then retrieving the results finally the results of this study are came out to be as the benefits of LMS in the virtual environment are centralized content management, scalability, great tracker academic tracker, easy student and teacher interactions and collaborative learnings.

Education systems always has been great issue because the youth will be depending on those curriculums and courseworks lot of students will be feeling pressure because of students can't able to manage their studies that's where these lms comes to picture [11]. Having an academic tracker and then score tracker will help the students to understand where they're standing right now as per the score and their academics and also the teachers will be having an understanding for them so the teachers will be keeping efforts for the students separately with different types of grade to make sure every student will be succeeded in their coursework [12]. The usage of centralized content management has make a lot of different types of methodologies from books to apply in the real time situations such as conditioned learning, corporate learning and these strategies has been implemented by using lms [13]. Finally the education institutes find using this learning management systems are really helpful because of its scalability future and it can accommodate any number of people just one education system needs one LMS and they can provision or improvision the students count and different features as per the need [14]. What's the most important factors of using this learning management system is student and teacher interaction happens really quickly without any efforts it's easy for the student and teacher to provide feedback to themselves through a lot of platforms and a lot of opportunities in this learning management system [15].

To conclude this study, the usage of learning management system has make both the students, teachers and the education institutions way easier so that it provides a lot of functionalities for the students and the teachers so that they'll improvise themselves in a long run either through giving feedbacks and following different study strategies.

4.1 Limitations

The limitations for the study are have only considered systematic literature review to complete this study, have only considered few keywords to complete this study and I have considered only acm and digital libraries but there are lot of libraries out there in the industry. The results are limited to only a certain number of sample because of the criteria that I have used and the constraints that I have kept for the selection of sample.

4.2 Internal validity

The study revolves around extracting knowledge from different digital libraries which are standard and also including constraints which will be given the sample of the study and those constraints are related to the research question so from all these pointers I can say my study holds up.

4.3 External Validity

The study findings alter if there is slight variation in the use of keywords to collect the research sample or there's a slight change in the criteria that I have mentioned or the quality assessment done on the sample.

4.4 Reliability

This paper holds reliable because I have followed a lot of standard procedures to complete this study where have used systematic literature review research methodology and the articles that I have used to review are from acm and ieee digital libraries which are chained at once and the result that I have derived from these libraries are also standard that is why this paper is reliable.

4.5 Ethical challenges

I have followed every standard procedures to complete this study and have not breached any kind of ethical integrity and the citations that I have mentioned and the papers that I have mentioned are taken from standard digital library.

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