

# The Role and Impact of an Open Courseware Learning Management System in Higher Education

Triveni Chandriki<sup>1</sup> and Kiran P Savanur<sup>2</sup>

<sup>1</sup>Associate Technical Support–KOHA, Informatics Publishing Limited, Bangalore & Research Scholar, Dept. of LIS, Rani Channamma University, Belagavi, Karnataka, India

<sup>2</sup>Assistant Professor, Department of LIS, Rani Channamma University, Belagavi, Karnataka, India  
E-mail: [trivenichandriki723@gmail.com](mailto:trivenichandriki723@gmail.com), [kiranpsavanur@gmail.com](mailto:kiranpsavanur@gmail.com)

(Received 6 October 2020; Revised 26 October 2020; Accepted 17 November 2020; Available online 23 November 2020)

**Abstract** - The essential cause of this find out about to check out the influence of e-learning in greater education. The learn about observed out that the use of e-learning structures suggests a fine effect on scholar studying in greater training current world. Most instructors utilized e-learning gadget as presentation and education device in educating and learning. Higher training establishments advantage from the use of an Open Courseware Learning Management System in the following ways: teacher and pupil get entry to to mastering content material each time and anywhere, a centralized supply of learning, monitoring and reporting equipment to beautify pupil getting to know and performance, elevated effectivity in scholar things to do such as undertaking submission, accelerated communication, and mastering analytics. Higher schooling is widely described as one of key drivers of increase performance, prosperity, and competitiveness.

**Keywords:** Learning experience; Higher Education; Open Courseware; Learning Learning Management

## I. INTRODUCTION

Today trending education system is eLearning. Information technological know-how and web technology are going more and more growing our capabilities and knowledge. Education had been growing presenting on line getting to know possibilities and excessive boom and adoption in training technology, although the everyday mannequin remained targeted on face-to-face learning. However, at some point of a new world of social distancing, schooling has end up definitely virtual. Meanwhile, eLearning administration system additionally had to rapidly adapt to a internet model, often with some distance much less ride and fewer sources for instructors and students.

Higher training establishments gain from the usage of an LMS in the following ways: teacher and pupil get right of entry to to mastering content material each time and anywhere, a centralized supply of learning, monitoring and reporting equipment to decorate pupil getting to know and performance, multiplied effectively in scholar things to do such as undertaking submission, improved communication, and studying analytics. (Trends and the Future of Learning Management Systems (LMSs) in Higher Education, n.d.). E-Learning ride of students challenge education. More especially the study offers with evaluating the effectiveness of e-Learning throughout gender, course, and town.(Trakru

& Jha, 2020) India aspects a file of easiest net customers in world and web penetration is reached 31%. Increasing net penetration in tier II, tier III cities and rural areas gives excessive achievable for the enlargement of e-learning. Nearly 725 million e-learning person bases are projected to be triumphant in by using 2021. There are pretty 300 million smart phone customers in India and is forecasted to upward jab with the aid of five hundred million by way of 2021.

Online content material vendors have designed their platform to be on hand in smart phones. The interface of the functions is well matched even inside the low-end phones. Thus this growing penetration of smart phones and web is anticipated to force the India Market over forecast period. Government's digital initiatives like Swayam, E-Basta, and Rashtriya Madhyamik Shiksha Abhiyan are anticipated to crate beneficial possibilities for market over forecast period. Enable the infrastructure wanted by means of college students to join in online education courses.

## II. IMPACT OF AN OPEN COURSEWARE LEARNING MANAGEMENT SYSTEM IN HIGHER EDUCATION INDIA

E-Learning in India has come an prolonged way with the match of technology. India is one amongst the international locations this is growing at an exponential fee in phrases of technology. With a populace of pretty 1.3 billion, the furnish of high-speed web and smart phones, India has the primary quantity of technologically pushed persons. The upward jostle of the net has modified the way of existence in India. People want to do the entirety online, they save online, do commercial enterprise online, make buddies online, study online, etc. While e-commerce is that the most imperative on-line industry, on-line schooling and gaining knowledge of stand proper subsequent thereto. With the ever-increasing records on hand on the internet and consequently the infinite range of on line courses, many of us in India like higher to study online.(Popescu, 2013)The modern-day country in truth wares in India the place textual training conquers over the smart knowledge, there may be an great scope for betterment if ELearning and on-line courses are adopted inside the each day timetable after or at some point of lectures. It's really helpful that faculties'

professors interact in imparting a minimal of as soon as each week realistic understanding lectures with the help of such on line courses. The convenience, attain affordability, easy access, and easy collaboration will supply on-line education a foothold over the regular techniques of getting to know and it is predicted that college students pursuing research on line will develop exponentially over time.(Bhadauria, 2016) By seeing the practicable and huge recognition of e-learning improvement and fashion digital technological know-how in India, our honorable Prime Minister has expected reworking our country and growing possibilities for all residents by using harnessing digital applied sciences via the "Digital India' initiative. The initiative consists of a number of initiatives in a range of areas regarding health, education, labor, employment, etc. As a local of the 'Digital India' project, many schools and universities provide on-line correspondence courses. Now let's endure a variety of fascinating information about on line training in India.

1. E-learning market in India used to be really worth \$247 million in 2016, which is expected to develop via about \$1.96 billion by means of 2021. That's a compound annual charge of boom of 52%.
2. The variety of customers enrolled for a range of on-line getting to know guides is estimated to be 1.6 million in 2016, which is expected to develop by using about 9.6 million through the pinnacle of 2021.
3. It is estimated there may be a 175% expand in the value of school room education, this presents on line training extra favored due to the fact it is cost-effective.
4. Nearly 48% populace in India, an age bracket between 15-40 with excessive aspirations however decreases income, perhaps a precise goal market for on-line education. And, the acceptability of on-line channels is excessive inside the youthful demographic. Online training in India. These elements genuinely exhibit the involvement and future plausible of e-learning in India.

### **III. ADVANTAGES OF E-LEARNING IN HIGHER EDUCATION OVER TRADITIONAL METHODS**

#### ***A. Greater and Easy Access***

One of the should benefits of e-learning in greater education is that it somewhere and whenever can get right of entry to and handy to attend instructions and courses. It permits college students and instructors the advantage of a technological know-how and skills, irrespective of their bodily location.

All data is structured and geared up way in the identical place, making on hand to very friendly to college students and teachers. Courses, resources, multimedia content, calendars, archives and opinions materials are on hand in simply one click. All customers have get entry to to gaining knowledge of content material and resource's substances at

every time and from wherever the place they have web access.

#### ***B. Resource Scalability and Saving time and money***

Second largest benefits of e-learning in higher education are Resource Scalability and Saving time and cash to greater schooling institutes. By bringing the whole lot on line to users, e-learning saves time, money, and resources. In education, it makes getting to know feasible even in the remotest locations of the anywhere. As a result, college students get to examine they courses on an character basis, at their convenience.E-learning systems to create, manipulate courses and lift out academic and courses coaching packages store the time when in contrast to normal education. And these guides can then be used repeat and repeat with new organizations of users

#### ***C. Up to date and immediate content and better results***

E-learning enable directors instantaneous get right of entry to to replace and add the content material of publications and substances and resource's, for college students for on the spot get entry to in greater education. E-learning in greater training has been recognised to enhance capabilities productivity, increase center of attention and thereby, supply higher tutorial results. This is due to the fact audio-visual and video mastering coupled with a host of variable media formats, have a tendency to forged a effective have an impact on on the learner's potential to hold close and continue information. This similarly improves rankings & refines outcomes of users. Here's greater on the Importance of Digital technological know-how in Higher Education.

#### ***D. Improved Pace***

The system of e-learning is by means of and large, self-paced. This is to say that e-learning permits college students to analyze subjects, at a time and tempo of their convenience. They don't have to fear about lacking out on different possibilities in simple terms to enhance their tutorial credentials. Similarly, college students can pick out their personal tempo of understanding, barring having to ride the consistent peer strain to examine shortly and operate well.

#### ***E. Cost-Effectiveness***

Must of education institutions, on line studying can show to be price fantastic for users. Traditional schooling extra steeply-priced due to the fact they desires bodily area classrooms, fees of trainers, tour and accommodation, path materials. However, on-line studying receives rid of all these cost, its supporting to customers to sign up for their courses of their choice.

### ***F. Quick Lesson Delivery***

As comparative to ordinary strategies instructing of lesson delivery, e-learning is plenty extra handy and sophisticated, dynamic and rapid learning. Most e-learning instructions are blanketed up inside a single tutorial period. Nonetheless, college students are given the pliability to expand or limit their session time, counting on their wishes and requirements. Learners can opt for to ignore the areas that they're already conversant in whilst focusing their energies on greater applicable subjects. Here's all you would like to apprehend about The Making of Future-proof Online Learning Programs and Courses.

### ***G. Personalization***

E-learning in training does not typically appear in the course of a team setting. Instead, it imparts schooling at some stage in a extra personalized, distinct, precise and obvious way. Students can select to ask questions, go away feedback, get responses, are seeking for repetitions and make clear doubts as per their personal degree of comprehension. This getting to know approach addresses issues, resolves troubles and customizes the total route shape to go well with the student's demands.

### ***H. Instant Up skilling***

In a time the place abilities are required to be up to date regularly, e-learning can persuade be an immensely useful tool. Be it students, veterans, beginners, specialists or mid-career gurus – e-learning permits every person to up skill themselves at a time and location of their choice. Neither do they want to join throughout a formal school, nor are they required to discover the different opportunities. With e-learning, they will analyze rapidly & thereby, operate better.

### ***I. Traceable Outcomes***

Last however now not the smallest amount, e-learning works wonders when it includes measuring outcomes, tracing outcomes and gathering feedback.

While it is not possible to continue to be on in depth tab on each pupil looking for schooling underneath the regular system, e-learning techniques make certain that limitless and constant assessment are frequently undertaken to check everyday progress. As a result, the necessities of every scholar are accommodated & the widespread of mastering turns into better.

## **IV. FUNCTION OF LMS IN HIGHER EDUCATION**

As referred to formerly Learning Management System may also be a software program primarily based software which assist us to administrate, document, track, file and consider the educating studying process, education programs, digital classes, and e-Learning programs.(Beaty, Liz (Head, Staff Developmen & McGill, Ian, 2020) Functions of Learning

Management System are regularly largely divided into four essential components then sub components are going to be mentioned beneath the most category:

### ***A. Stakeholder Functionality***

In this phase the participant or stakeholder has their very own area by means of which they're equipped to get right of entry to the subsequent services:

1. View the popularity in reality and completion of courses.
2. Facility to print or view the certificates 2- Content or Course Management.
3. Manage, add or delete the content material of the path or modules. b) Introduce new courses. c) Setting the path calendar.

### ***B. Management of Information***

1. View and music the records and existing reputation of participants.
2. Reports and records handy about the direction and participants.

### ***C. Assessment***

1. Help us to add and retrieve undertaking and resources.
2. Allow to make on line stand- on my own assessment.
3. Provide grades and last output of learning.  
(Chen & Almunawar, 2019)

## **V. IMPORTANCE OF E-LEARNING IN HIGHER EDUCATION**

The modern challenges going through ordinary schools and universities such as greater tuition, price range cuts, and path shortages - purpose many college students to seem for alternatives. With almost three million college students presently enrolled in wholly on line packages and 6 million taking a minimal of one on line direction as a section of their degree, on-line training has without a doubt emerge as one amongst the predominant famous training alternatives. The continuously enhancing popularity of on-line mastering helped gasoline its expansion, as preliminary skepticism faltered inside the face of proof displaying that on line gaining knowledge of are regularly even as superb as face-to-face education.(Naresh & Reddy, 2018)

## **VI. THREE STAKEHOLDERS OF LEARNING MANAGEMENT SYSTEM**

### ***A. Administrator***

Administrator preserves the proper go with the flow of operation of offerings and its users. He is accountable to enrollment of the users control the courses and run the

system. Manages the complete environment(Sampson & Zervas, 2012)

### ***B. Instructor***

The coach usages LMS to supervise, guide, help and consider the learners. Generate events, courses or topics in accordance to the thematic areas described Generate training or activities which are exact

### ***C. Learner***

Learners are the most users of Learning Management System and that they are the major client of the services. Accesses and interacts with a precise match and participates in the topics they are subscribed.(Kushwaha & Singhal, 2019)All of this suggests that students, from working specialists to current excessive faculty graduates, locate many motives to require all or a range of their publications online. The subsequent listing consists of benefits to on line getting to know.(Singh, 2005)Students in on line applications can efficiently manipulate their time, examine the materials, and whole assignments on their very own schedules to name simply a couple of benefits of on line learning.(Pradeep *et al.*, 2016)

#### ***1. View Original sort of programs and courses***

From common four-year universities to absolutely on-line profession colleges, training nowadays gives a unfold of selections for university youngsters . this suggests that regardless of what college students study, from nursing to neuroscience, they will discover the guides or applications they have online. Students additionally can earn each diploma online, from a profession certificates to a doctorate.

#### ***2. Lower total costs***

Online packages show a more cost-effective choice than ordinary colleges. Though now not all on line levels provide much less pricey internet training costs than standard colleges, related prices almost continually fee less. for occasion , there are no longer any commuting costs, and every so often required path materials, like textbooks, are on hand on-line at no cost. moreover , many schools and universities take delivery of credit earned by free massive open online courses (MOOCs), the major current boost in on line education. These free on-line guides can assist college students fulfill standard education requirements.

#### ***3. Easier learning environment***

Commercials that function on line college students reading in their pajamas solely skims the floor of 1 of the blessings of on line education: no bodily type sessions.

Students hear lectures and entire assignments despatched to them electronically, with no acquired to combat traffic,

depart work early for sophistication , or leave out necessary household time.

### ***4. Convenience and flexibility***

Online courses provide college students the danger to sketch learn about time spherical the the rest of their day, instead than the contrary way around. Students can find out about and work on their convenience. Course fabric is generally on hand online, making one-of-a-kind library journeys unnecessary. All of these advantages assist college students stability work and household commitments with their training.

### ***5. More interaction and greater ability to concentrate***

While contradictory proof about the velocity of on-line pupil participation versus participation in typical publications exists, one issue stays certain: Online guides provide shy or greater reticent college students the threat to take part in faculty discussions greater effortlessly than face-to-face category sessions. Some college students even record higher awareness in on-line instructions thanks to the scarcity of lecture room activity.

### ***6. Career advancement***

Students can take on line publications and even entire complete levels whilst working, whilst in-between jobs, or whilst taking time to enhance a family. This tutorial work will provide an explanation for any discontinuity or gaps in the course of a resume additionally . Also, incomes a diploma can exhibit ambitiousness to potential employers and a wish to remain knowledgeable and equipped for company spanking new challenges.

### ***7. Continue in your profession***

Albeit any person desires to end a degree, it is going to no longer imply they want to go away their present day job. for many college students today, growing university charges mandate that some college students proceed working whilst in classification . The until now noted flexibility of on line packages allow college students to remain working whilst additionally pursuing educational credentials.

### ***8. Avoid commuting***

During snowstorms and thunderstorms, schools may also cancel lessons to keep away from placing commuting college students in chance of unsafe riding conditions.

Rather of omit necessary classification sessions, college students in on-line publications can constantly "attend" by way of taking part in dialogue boards or chat sessions, handing over their work on time, and observing lectures or analyzing materials. Many college students additionally locate giant financial savings on gas expenses with no shuttle for classes.

### **9. Improve your technical skills**

Even the important simple on line path requires the tournament of state-of-the-art pc skills, as college students research to navigate special getting to know administration structures (LMS) and programs. The participation competencies college students examine inside their on-line guides translate to quite a few professions, inclusive of developing and sharing documents, incorporating audio/video substances into assignments, finishing on line coaching sessions, etc. Some colleges even provide college students free laptops or iPads.

### **10. Transfer credits**

College understudies who received to attend summer season classes, alternatively stay too an prolonged way from their colleges additionally as preserve summer time sources of income, taking over the on-line instructions from a licensed college and transferring the credit to their crucial college are frequently helpful. Understudies can achieve college credit score whilst so a ways making the primary of their late spring tour or gratifying the duties of their everyday work. Correspondingly, if a college or university does not provide adequate open areas of a essential course, understudies can take the route on line at every other college and pass the credits.

## **VII. CHALLENGES FOR ONLINE EDUCATION IN INDIA**

There are some common challenges that were considered while preparing the new education policy. A number of them are provided below.

1. More than 30% of the country's population isn't computer literate. A number of them even don't SKILLS to start out a computer.
2. Not everyone can afford a computer or a laptop. Some sections of the society like farmers, maids, housecleaners, sweepers and waiters may face difficulties purchasing a laptop.
3. Some teachers aren't conversant in the new format of education. They're not well trained for online education classes. Besides this, it's not necessary that an honest classroom teacher are going to be an honest teacher within the online classroom.
4. There are a limited number of resources available to conduct a web examination in India. Besides this, there's a limitation for the amount of questions which will be asked within the exam.
5. Certain sort of subjects and courses like science and humanistic discipline can't be taught within the digital education space.
6. The online education system is more of a kind of screen-based learning system which restricts the scholars to perform practical.

7. The internet connectivity isn't good everywhere. There are some cities of India where the people are still using 2G or 3G internet connection.
8. A good concentration and self-motivation are required for online education. Students below the age of 17 years may lack these skills.

## **VIII. BENEFITS OF ONLINE EDUCATION**

Online education is appreciated with the aid of humans that will possibly be unable to shape it for lessons all through a traditional bodily type of college due to specific reasons. Beneath we are going to test out some of the advantages these energizing training offers to such understudies.

### **A. Adaptability**

Understudies have the risk to shuffle their vocations and college when you consider that they're no longer secured to a challenging and speedy calendar. During a traditional find out about corridor setting, category assembly instances are set, and therefore the understudy has no manage over this, riding them to parent their calendars round these dates. An high-quality many of us who select net primarily based mastering will commonly have distinctive responsibilities, and want this technique of mastering due to the fact it offers them manipulate over how they're going to assign their time in the direction of their a variety of ventures.

### **B. Decreased Costs**

Online education can fee much less due to an assortment of reasons. as an instance , there may be no price for driving. Grouped prices that are recognized with transport, for occasion , fuel, leaving, automobile upkeep, and open transportation charges do not affect the net understudy.

### **C. Systems administration Opportunities**

Online practise likewise furnishes understudies with the danger to coordinate with friends crosswise over nations or possibly a number of landmasses. This regularly prompts distinct open doorways related to joint effort with distinctive humans inside the execution of a venture. Simultaneously, it makes them socially sensitive and organized to swimsuit into exclusive stipulations correctly given their presentation to one of kind societies.

### **D. Documentation**

All the data that you virtually will want are going to be securely put away in a internet database. This accommodates matters like stay discourse records, getting ready substances and messages. this suggests if there is normally something have to be explained, the understudy will have the desire to urge to these reviews quick, sparing vast time. this is regularly mainly precious for people that bought to entire lookup for a task and current their discoveries to a board.

### E. Expanded Instructor - Student Time

Understudies in traditional homerooms may no longer get the custom-made consideration they want to possess thoughts explained. In spite of the very truth that classification sizes are little at CCA, most schools have instructions of understudies that wide variety inside the hundreds. this is now not a trouble for this kind of coaching in mild of the very truth that on-line guided discourses and man or woman discuss time with their educators and audio system may also be a signal of on line classes. It expands the probabilities of an understudy performing top notch due to the time their educators supply them. This moreover improves their quintessential questioning and relational abilities, even as realizing the way to shield their contentions to bosses if necessary.

### F. Access to Expertise

An on line college practise might also provide understudies get entry to to precise diploma guides which will no longer be on hand in an efficaciously accessible or regional institution of learning. as an instance , at CCA you may be searching for after a diploma in Marketing or an endorsement in C++ Programming barring dwelling on the brink of the organization. Online training allow the sharing of capacity that assists greater with peopling method preparation that may also no longer instantly reachable insure geographic areas. This kind of teaching has emerge as during the predominant current few years and has encountered fashionable acknowledgment. With a internet class, you get the prospect to modify your gaining knowledge of condition, which in the end encourages you construct up a extra profound comprehension of your diploma course. New fashions of getting to know are consistently leaping up inside the market, giving understudies fluctuated probabilities to fashion their guidance into something that fits them, now not the contrary route round. It moreover offers human beings an probability to end a diploma they shall have begun and weren't capable proceed with for a few explanation. The destiny of on-line diploma practise appears encouraging, and exposes education to a lots better place of the populace than at the different time. One problem that emerges inside the on line training versus traditional classes' dialogue identifies with test-taking, because educators and understudies impart basically. Teachers do not administer the method to make sure that no swindling happens. to elucidate this issue, places of work may additionally require diploma searchers to go to focuses the place a delegate can direct the evaluation. Another choice consists of utilising web administering administrations that display screen understudies as they work. On the off hazard that the pupil suggests any habit that demonstrates bamboozling, the administration may additionally warning the varsity. This manner licenses diploma opportunity to get rid of value determinations from grounds, and moreover offers college's simple task that understudies surely earned their evaluations.

## IX. CONCLUSION

LMS purposes in education will nonetheless innovative. It offers a virtually dependable and organized journey of digital learning. Students are increasingly more predicted web-based studying substances for his or her courses. However LMS might also be a web-based machine however the utilization of the LMS isn't always restrained to on-line instructions only. it is been broadly used and can nonetheless develop in schooling and industries in future. It does not restriction to the net surroundings however additionally built-in into the hybrid and web-enhanced instructing and getting to know environment. The facets of the LMS made each people to undertake LMS in their day to day life. This paper we made an strive to factors in the direction of the function of LMS in instructing and gaining knowledge of pedagogy, access, flexibility, and fee effectiveness in education. So as to recognise wonderful mastering consequence it is counseled for training institute to combine LMS in their educating and gaining knowledge of process.

## REFERENCES

- [1] Beaty, Liz (Head, Staff Development, & McGill, Ian. (2020). Action Learning in Higher Education. *Action Learning*, 230–252. <https://doi.org/10.4324/9781315042480-21>
- [2] Bhadauria, R. (2016). E-Learning – A boon for Indian Higher Education System. *International Journal of Engineering Technology Management and Applied Sciences Wwww.Ijetmas.Com*, 4(2), 2349–4476.
- [3] Chen, C. K., & Almunawar, M. N. (2019). *Cloud Learning Management System in Higher Education. September 2015*, 29–51. <https://doi.org/10.4018/978-1-5225-7473-6.ch002>
- [4] Kushwaha, R. C., & Singhal, A. (2019). Online learning: An emergence of new model of education. *International Journal of Recent Technology and Engineering*, 7(6), 75–78.
- [5] Naresh, B., & Reddy, D. B. (2018). E-Learning in Indian Higher Education and Future Prospects. *International Journal of Pure and Applied Mathematics*, 118(18), 4301–4308.
- [6] Popescu, M. (2013). *The impact of SNS in higher education. January*, 296–300. <https://doi.org/10.1109/ECONF.2015.72>
- [7] Pradeep, E., Ji, K., & Panchanatham, N. (2016). Research & Reviews: Journal of Educational Studies E-Learning Strategy in Higher Educational Institutions in India. *Journal of Educational Studies*, 2(1), 18–23.
- [8] Sampson, D. G., & Zervas, P. (2012). Mobile Learning Management Systems in Higher Education. *Virtual Learning Environments, July 2014*, 1249–1264. <https://doi.org/10.4018/978-1-4666-0011-9.ch608>
- [9] Singh, G. (2005). A Study Into The EffectSingh, G. (2005). A Study Into The Effects Of eLearning On Higher Education A Study Into The Effects Of eLearning On Higher Education. *Journal of University Teaching and Learning Practice*, 2(1).ts Of eLearning On Higher Education A S. *Journal of University Teaching and Learning Practice*, 2(1).
- [10] Trakru, M., & Jha, T. K. (2020). Blended Learning Effectiveness in Higher Education. *International Journal of Engineering and Advanced Technology*, 9(3), 105–108. <https://doi.org/10.35940/ijeat.c4801.029320> Trends and the Future of Learning Management Systems (LMSs) in Higher Education. (n.d.). Retrieved October 20, 2017, from [https://www.buffalo.edu/content/dam/www/ubcei/reports/CEI\\_Report\\_-\\_Trends\\_and\\_the\\_Future\\_of\\_Learning\\_Management\\_systems\\_in\\_Higher\\_Education.pdf](https://www.buffalo.edu/content/dam/www/ubcei/reports/CEI_Report_-_Trends_and_the_Future_of_Learning_Management_systems_in_Higher_Education.pdf)