

An Analysis of Web Based Learning Platform

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Abstract

Our education system is also upgrading and taking an advance way of learning. This advance way of learning uses web and combination of applications termed as “platforms”. This web based learning is an education with the help of internet using device that poses hardware and software. Web-based learning platforms are integrated software solutions for e-learning. They provide a range of tools for transmitting and receiving new knowledge, skills and attitudes, intended to stimulate and guide the learning process through the use of computers and internet connections. The research paper is analysis of Web Platform for Student Teachers with Diversified Needs Based on Universal Learning. In this paper discuss about the methods, standards, applied to analysis of web based learning. The purpose of this research is to investigate and analysis the web platform for e-learning systems in universal learning. This paper compare on past practice and calls for a greater focus on learners and learning and the technologies and emerging pedagogies that offer deep and exciting learning opportunities for the future. This article presents a analysis of web Based learning and traditional. In addition, this study presents a systematic literature review about the history of we based learning, web platforms, tools of e-learning and its development from early times to recent times.

Keywords: *Information Communication technologies, E-learning, E-learning platform, learning management system*

1. Introduction

Web-based learning is a type of learning that uses the Internet as an instructional delivery tool to carry out various learning activities. These learning are nothing but it is education with the help of web based tool that used hardware and software. These web based platforms used for learning is nothing but web based learning platforms like Vedantu, Physics-walaha, BYJU’S, and much more. Web based learning platform is the future of education. Even after the global health crisis is over, the number of students looking to improve their knowledge and career through self-paced online learning is likely to increase.

Many of us are usually familiar with traditional teaching and learning where the teacher is teaching 30 to 40 students at a time and no one knows students are getting or not what is explained. So this type of study is not considered more effective than online study. The purpose of this research paper is to analysis the importance of web based learning over traditional Learning for student teachers based on universal education, implementation of web platform in e-learning and challenges of web based learning.

2. Web Based Learning Platform

A web based learning platform is a Combination of interactive online services that provide information, tools, and resources to Teacher, instructors, learners, and others involved in education in order to support and enhance education delivery and management. One type of web based learning platform is a learning management system (LMS). The objective of a successful web based learning platform is that it creates a robust learning experience that feels more like a classroom experience, without traditional classroom features (such as instructor-student interaction, Q&A, discussions, games, collaborative projects, quizzes, etc.).) offers, but either online or through a computing device (such as a laptop, desktop, tablet or mobile.) these critical learning environments are achieved through the features and tools of learning platforms that enable the interaction and engagement required of students make level. There are several web based learning companies that provide online learning platforms. Some of these virtual learning environment platforms allow you to host and sell courses online, allowing you to run your own business. Other platforms simply provide an interface in which users can interact with your content Web based Learning platforms are the substitutes for the traditional classroom. They provide a place where web based learning programs are hosted and allow people to connect and learn. One important advantage of web based learning is that you can learn whatever you want! You can pursue your academic career or choose to study something else altogether. You can polish your soft skills or take those art or music production lessons you've always wanted to take part in.

3 Review of Literature

Web based learning can be a potential platform in providing a number of delivery methods for different types of learners, when compared to conventional classrooms. Furthermore, e-learning is an influential tool as it can provide unique learning styles and improve academic performances of students. Students can actively participate in e-learning environment where they can increase their thinking ability and learn independently (**Dumford and Miller, 2018**). Students can have systematic lessons as it provides content and exercises portrayed in animations, sounds, and videos.

Moravec, (2015) clarified how e-learning resources influence student success. Nearly 2000 students attended the study. The research contrasts the results of questions from the area of law where the tool was given in a pilot edition with the results of questions from the area of law where the e-learning tool was not provided, according to moravec (2015). The students outcomes were influenced by the e-learning methods, the researchers found. Even so, the hypothesis that the e-learning tool can have a detrimental impact on students who rely on given materials has been debunked.

Horovpák et al. conclude that electronic version of testing presents modern and effective form of feedback from students to teacher and that electronic testing has its own unique place in the whole education process.

Stanescu et al. also prove the advantages of an e-learning tool that permits generation of questions from the certain base of question defined previously

Jared Keengwe, Terry T Kidd, (2010) This article is intended to stimulate reflections on effective strategies to enhance faculty success in their transition from traditional pedagogical platforms to online learning and teaching. This article examines a review of literature related to online learning and teaching. The authors provide a brief historical perspective of online education as well as describe the unique aspects of online teaching and learning. The barriers to online teaching, the new faculty roles in online learning environments, and some implications for online learning and teaching are also provided.

Ritanjali Panigrahi, Praveen Ranjan Srivastava, Dheeraj sharma(2018) ,The use of Technology to facilitate better learning and training is gaining momentum worldwide, reducing the temporal and spatial problems associated with traditional learning. Despite its several benefits, retaining students in online platforms is challenging. Several studies have shown the positive effects of e-learning from the insights of learners or students (**Gautam and Tiwari, 2016; Martínez-Caro, Cegarra-Navarro and Cepeda-Carrión, 2015; Chang, 2016**). For instance; elearning allows to observe much flexible learning ways to go for classes with much reduced need for travel.

It is important for instructors to embrace the advanced technology throughout the process of teaching

and; therefore, learning has a range of skills in information and communication technology (ICT) (**Aithal and Aithal, 2016**).

Other important benefits as highlighted by **Al-Handhali, Al-Rasbi, & Sherimon (2020)** indicated several benefits of LMS, making it user friendly, effective in managing time, provide ease in the management of courses, teachers, facilities, generate reports. It further provides timely reminder to users which include; date of deliveries, answering questions, test dates etc. **Aydin & Tirkes (2010)** in their study analyzed the usefulness of LMS and Moodle.

In the e-learning context in academic perspective, **Holsapple & Lee post (2006)** measures the positive benefits of e-learning in terms of learning enhancement, empowerment and time savings. In the case of organizational training in an e-learning platform, **Wang et al. (2007)** uses improvement in job performance, creation of strategic advantages, adoption to change, producing new and better products, Cost and time savings, ROI and achievement of organizational goal as the items to measure Net benefits. An e-learning system equipped with applications that echoes the users opinion and mechanisms that resolve accessibility concerns is advocated by e-learners (**Mohammadi 2015**).

4. Research Methodology

The methodological approach used to meet the research objectives of the research integrates a quantitative and qualitative data analysis, benefiting from a mixed method approach and action research. A descriptive scope and a transversal design, has been applied that "seeks to specify properties, characteristics and important features of the phenomenon under analysis" and provides a basis for an appropriate solution to the problem of study.

A non-probability incidental sampling of students and Teachers from the different institute, took place on this study. The questionnaire content validity has been assured through consultation with experts, who have reviewed the clarity, adequacy and internal consistency of the items based on their experience.

The research methodology for the present research study has been formulated on the basis of the aims and objectives of the study. The study based on both primary and secondary data. To collect firsthand and factual data (Primary data) researcher used Questionnaire Technique. The secondary data (data that are already available) was collected from Surveys, standard Reports, valuable Books, Journals, magazines and published & unpublished literature, articles, websites, News Papers, etc.

The present study has required variety of data which cannot be collected by using homogenous sources. The researcher data so required has been collected by using diversified sources. Hence the following table indicates type of data collected, the sources and approaches are given and explained in the following table.

Table 4.1 Sources of Data

Respondents	Source	Purpose	Approach
Teacher Student Parents	Primary Data	To collect first hand and basic information regarding awareness of e-learning and its Tools; usages of e-learning based Tools; opinion on e-learning and Development; Pedagogical skills related to Computer & Technology, web platform based Technology.	The data is collected by using questionnaire as a tool of data collection
	Secondary Data	To collect Current information regarding e-learning s 1) Statistics 2) Opinions 3) Views	Books , Reports, Data available on Websites and Research data

For the present study survey method has been adopted by the investigator which includes questionnaire, observation and interview of the respondents for knowing the opinion of the respondents regarding awareness of E-learning web portal ; usages of e-learning and its Tools; opinion on e-learning and Development; web portal based e-learning Technology. The respondents are equally and proportionally selected from India by using simple random sampling method.

4.1 Methodology Chart

The methodology chart shown below in Figure 4.1 indicates the series of different actions performed to process the thesis work related to the web platform of e-learning. The various stages of work proposed to be done to complete the thesis are shown in the chart at different stages.

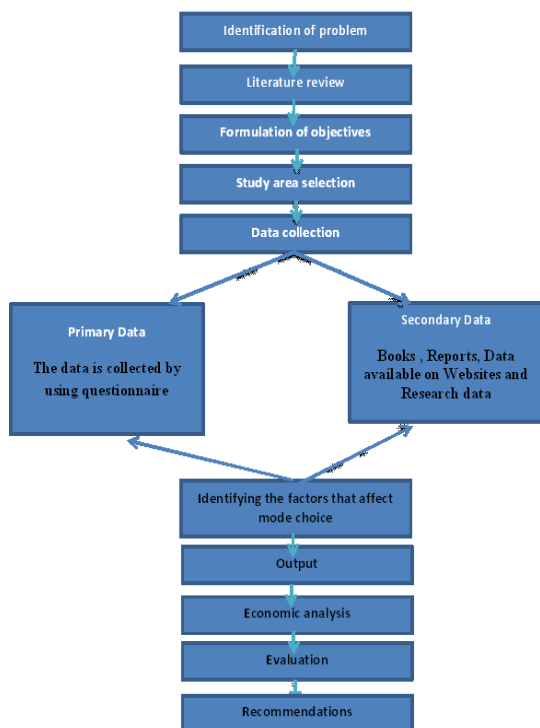


Fig.:1 Methodology Chart

4.2 Data Analysis

Raw primary data has been collected with the help of a questionnaire. The raw data has been tabulated with the help of table. From the tables, concept, analysis and inference are drawn which was used for interpretation. Based on these, charts wer prepared for better pictorial understanding of the study. From the set of inferences and interpretation, conclusion has been drawn and suggestions were highlighted.

Analysis 1:What is your most preferred method for clearing doubts in e- learning Platform?

Web based learning platform helps students to learn from the comfort of their place. These forums provide many ways for students to clear their doubts which are very beneficial for the students.

- Ask the professor during/after an online lecture
- Post the query in a discussion forum of your class and get help from your peers
- Go through online material providing an additional explanation.

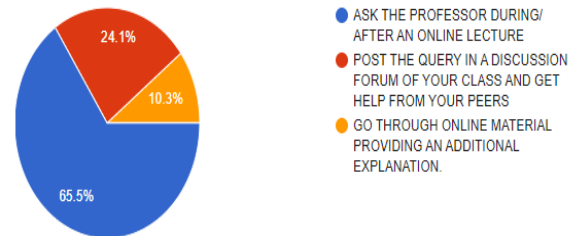


Fig 2: Method for clearing doubts in e- learning Platform

Interpretation: The respondents told that during the online lectures the professors solve all kinds of doubts. 24.1% of the respondents use the forum method to clear their doubts. They are Post the query in a discussion forum of your class and get help from your peers

Analysis 2: What do you think about tuition cost of e-learning platform?

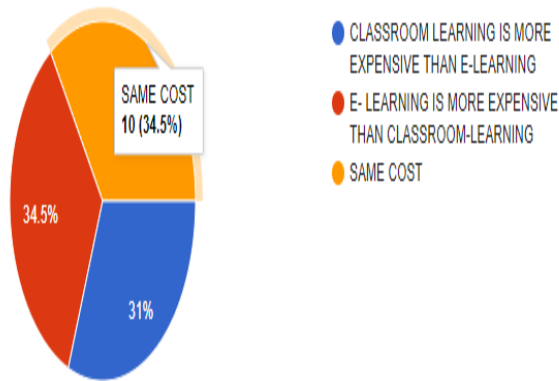


Fig 3: Cost Analysis E-Learning Platform and Classroom Learning

The above graph compares the cost of classroom learning and e-learning platforms. It is evident that 31% respondents agree that classroom learning is more expensive than e-learning platforms and 34.5% e-learning is more expensive than classroom-learning.

Interpretation: Respondents responded that 34.5% e-learning is more expensive than classroom-learning. 34.5% respondents answer cost of E-Learning platform and class room learning are same.

5. Conclusion

This paper analyzes and tries to find out what is meant by web base learning as e-learning is gaining popularity day by day and has many users. There are many online e-learning platforms available. The study focuses on the users' opinion and what they think best to describe what e-learning means and which e-learning platform was used by their school/college or educational institutions. And which e-learning did they like the most for learning. The cost factor is also a focus in the study.

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