

# Performance and Sematic Approach for Web Based Learning

Dr.K.Ramya<sup>1</sup> K.Suganya<sup>2</sup>

1Associate Professor & Head , Department of Science & Humanities , C Abdul Hakeem College of Engineering and Technology Melvisharam,Vellore.Email:ramyakambadas@gmail.com

2Assistant Professor, Department of BCA , Dharmapuram Adhinam Arts college, Mayiladuthurai  
Email:rsuganyanila@gmail.com

## ABSTRACT

In this era Use of Internet for education has a potential to change many aspects of our lives. number of web-based distance education systems has rapidly increased as a result of improvements in the Internet. Web based learning(WBL) decreases limitation of learning location with the mobility of general portable devices. Web-based teaching and learning is rapidly emerging as a predominant paradigm in the delivery of education in society. Internet is the ocean of knowledge. This ocean can be made available to all students as early as possible in their life. So Information Technology & related tools can be introduced in school education by using World Wide Web as education delivery medium.

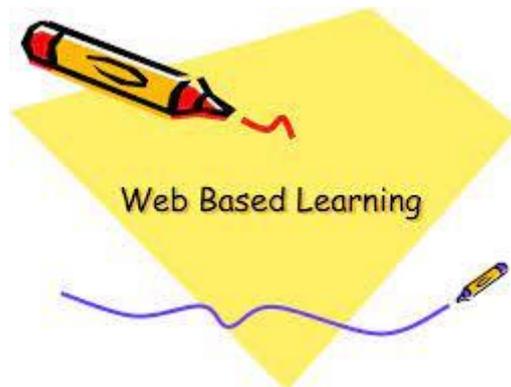
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## I. INTRODUCTION

Web-based learning is commonly referred to as eLearning or online learning. It essentially includes learning online through the courses that are offered on the net. Emails, live lectures, and videoconferencing are all possible through the net. This enables all the participants to give their views on a particular topic and then discuss them further.

E - learning is a very powerful tool among all the learning trends to provide the learner with all the things he's willing to learn on his own or in his own space.

E - learning is also a boon for academic teachers where they can save lots of time and exhausting boring class conditions and concentrate a lot on student equipment in their respective subject.



## II. Characteristics of Web based learning

A web-based learning environment is not only suitable for distance education but able to support the twenty-first-century learning because it can improve the skills needed by students especially in higher education. Therefore, a web-based learning is very suitable to emphasise studentcenteredness because it does not depend merely on the instructor. According to Baharuddin (2001), learning through the website should have the following characteristics:

1. Ability to produce genuine learning context and involve solving real problems
2. Students are responsible and have initiative to learn independently in a skill
3. Teachers act as facilitators and guides, not as a source of information
4. Active discussion between students and teachers
5. The learning in a group-collaborative and cooperative learning
6. Authentic learning assessment strategies to evaluate the actual skill.

### III. Types of Web based learning

#### Computer-Managed Learning (CML)

In a computer-managed learning environment, instructors use computers to provide learning objectives and assess learner performance (Day & Payne, 1987). Computer-managed learning systems can fulfill several functions, including generating tests, analyzing the results of these tests, and keeping records of learners' progress .

#### Computer-Assisted Instruction (CAI)

Also referred to as computer-assisted learning, CAI is a type of elearning that uses computers together with traditional teaching. This method includes a wide variety of activities, including drill-and-practice, tutorial, and simulation activities

#### Synchronous Online Learning

Through synchronous online learning, groups of students can simultaneously participate in activities in real-time, anywhere they are in the world . This real-time interaction is facilitated by online chat and videoconferencing, which allows students and instructors to interact with each other without delays

#### Asynchronous Online Learning

In contrast with synchronous online learning, asynchronous elearning methods allow students to study independently at different times and locations, without real-time communication

#### Fixed eLearning

In fixed e-learning, the content used during the course of learning does not change once it is created. This means all participating students receive the same content. The material is usually determined by instructors

#### Adaptive eLearning

In adaptive e-learning, learning materials are redesigned and adapted to fit the needs of each individual learner. Parameters such as student performance, abilities, and goals are considered so that educational approaches are more student-centered and individualized.

#### Linear eLearning

eLearning can also be classified by the communication model used. In a linear elearning approach, information is passed from sender to receiver. The time, order, and pace at which the information is received are determined by the sender, and there is no feedback from the receiver to the sender

#### Interactive eLearning

In contrast with linear elearning, interactive elearning enables two-way communication between the parties involved. In this approach, the sender can become the receiver and vice versa. Modern examples include instant messaging and discussion boards or forums

#### Individual eLearning

eLearning can also be classified into its group dynamics. In individual elearning, learners study the material individually and students are expected to meet learning objectives on their own. This mirrors learning practices in traditional classrooms.

#### Collaborative eLearning

Compared to individual elearning, collaborative elearning is a more modern approach. In this method, two or more students engage in the learning process as a group.

### Importance of e-learning

- E-learning has been introduced to empower learners to get basic schooling and enhance skills. Also, they can obtain a degree certificate, without actually attending school or university or any other institution.
- For tutors, it is a great source of earning, wherein they can teach from anywhere in their preferred time.
- Applying e-learning to all levels of schooling helped to ensure students grasp the lessons adequately at a faster pace.
- According to psychology, the audio-visual method of teaching leads to a disciplined learning environment. There are effective tutor and student engagements.
- One of the importance of e-learning in education is that tutors and participants both can develop advanced learning skills. For example, creating and selling eBooks is one such advancement.
- E-learning has worked towards bringing learners, tutors, experts, practitioners, and other interest groups to one place. Thus, there is a good practice of knowledge sharing followed through different online platforms. This is important in current times as competition is rising and the world is also growing. Hence, quick information helps in the better growth of an individual.



### Advantages Of eLearning

1. You are able to link the various resources in several varying formats.
2. It is a very efficient way of delivering courses online.

3. Due to its convenience and flexibility, the resources are available from anywhere and at any time.
4. Everyone, who are part time students or are working full time, can take advantage of web-based learning.
5. Web-based learning promotes active and independent learning.
6. As you have access to the net 24x7, you can train yourself anytime and from anywhere also.
7. It is a very convenient and flexible option; above all, you don't have to depend on anyone for anything.
8. Not only can you train yourself on a day to day basis, but also on weekends or whenever you have the free time to. There is no hard and fast rule.
9. Through discussion boards and chats, you are able to interact with everyone online and also clear your doubts if any.
10. The video instructions that are provided for audio and video learning can be rewind and seen and heard again and again if you do not happen to understand the topic first time around.

### Disadvantages Of eLearning

1. Most of the online assessments are limited to questions that are only objective in nature.
2. There is also the problem of the extent of security of online learning programs.
3. The authenticity of a particular student's work is also a problem as online just about anyone can do a project rather than the actual student itself.
4. The assessments that are computer marked generally have a tendency of being only knowledge-based and not necessarily practicality-based.

## Is E-learning the future of education in India?

Yes, it is! The jobs of the future will require digital and technological skills, and as the next generation of digital natives enters the workforce, **E-learning** will play a more prominent role in developing the **education system in India**. So, **E-learning** is very important for students to adapt to and will help them with their future careers. **Birla Brainiacs** is one of the **best online learning platforms in India**. It is a collaborative **online learning platform** for students from grades 1 to 10. The curriculum aims to make learning an engaging process while catering to each student's learning needs. Learning at home improves critical thinking, reasoning, and memory. The **Birla Brainiacs app** is made to cater to those students who don't usually understand what is being taught in school. The curriculum targets the concepts in a way that a student's doubts are clarified after watching the videos. The **Birla Brainiacs online app** uses technology that identifies real-time progress and provides an adaptive curriculum by bridging learning gaps. The **digital learning app** strives to provide a balance between guided learning and self-study. It even has an **exam scholarship** program that is used to identify young talented students and support them to achieve next-level performance by providing the top performers with **scholarship** awards.

## Conclusion

Web-based education gives huge opportunities for learning and access to a vast amount of knowledge and information. It also provides huge opportunities for differently abled persons by providing technical devices, software etc

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