A Methodology for Web Based Learning

**J.P. Singh, B.K. Mishra, Harish Kumar Goel
and Kumar Bibhuti Singh**

*Librarian, Krishna Institute of Management & Technology (KIMT), Moradabad.U.P., India
E-mail: jsingh@kiet.edu
Asst.Librarian, A.D. Pant Central Library, Almora, Uttarakhand, India
Research Incharge, University of Delhi, India
Lecturer, KIMT, Moradabad, U.P., India*
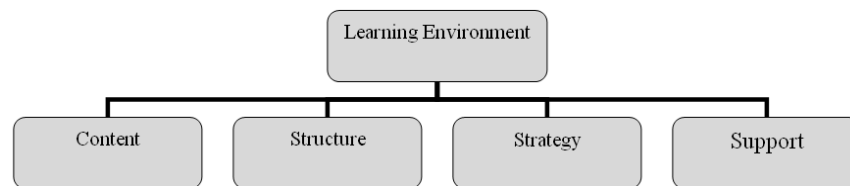
Abstract

This study investigates the students' attitudes towards the e-learning environment and its effects on the teaching and learning process. We note a general positive attitude towards the online learning environment although there was no significant difference in student results. However, the current e-learning environment does not really cater for individual preferences of students.

A methodology for web based learning has been developed and offers for teachers to produce hypermedia information with knowledge sharing. Web based learning and teaching environments have been the focal point of educators. The benefits of Web-based training when we compared to traditional training include all those shared by other types of technology-based training. These benefits are that the training is usually self-paced, highly interactive, knowledge sharing, results in increased retention rates, and has reduced costs associated with student travel to classroom. Web based learning decreases limitation of learning location with the mobility of general portable devices.

Keywords: Knowledge sharing, virtual classroom, mobile learning, web based learning management system, computer-assisted learning; distance learning; distributed learning; hybrid course; online education; information technology; medical education.

Introduction

Web based learning provide new potential to learning through virtual classroom and interactive instructions. It provides different courses anytime, anywhere around the world. Students can access information whether they are working from home, in the office, or from museums .In the mobile world students will be able to access training in a place that doesn't have a traditional phone line or network connection. It provides the information with affordable cost. Subject matter can be easy updated on the web.

Knowledge Sharing

Access is available anytime, anywhere, around the globe. Students always have access to a potentially huge library of training and information whether they are working from home, in the office, or from a hotel room. As cellular modems become more popular, students will even be able to access training in a place that doesn't have a traditional phone line or network connection.

Per-student equipment costs are affordable. Almost any computer today equipped with a modem and free browser software can access the Internet or a private Intranet. The cost of setup is relatively low. Student tracking is made easy. Because students complete their training while they are connected to the network, it is easy to implement powerful student-tracking systems. Unlike with CD-ROMs that require students to print reports or save scores to disk, WBT enables the data to be automatically tracked on the server-computer. This information can be as simple as who has accessed the courseware and what are their assessment scores, to detailed information including how they answered individual test questions and how much time they spent in each module.

India is country of villages. We can make a portal in different language with same web content. Web content can share the resources, knowledge between villages, panchayats and blocks. Teachers can share idea, knowledge with students. A ruler student can get idea of famous teacher at low cost .It can make knowledge management system for resource sharing.

MAJOR CITIES   :   60
DISTRICTS   :   600
BLOCKS   :   6000
PANCHAYATS   :   200000
VILLAGES   :   700000

It makes one platform for teacher and student. It reduce the cost of books, notes and tutorial fees. It develop a process of developing and maintaining connections with people and information, and communicating in such a way so as to support one another's learning.

Virtual Library

Every users cannot afford the living cost of metropolitan city, but they can learn through the web. A student can get education of abroad university on web at low cost and easy way. Web based learning is an asset for dumb and physically handicapped person. Women who can not go school or college they can get education at home. It also beneficial for working person and old person who want to learn in extra time. Teacher can give assessment through the web. online test is the best example of virtual classroom.It also refer to educational web sites such as those offering learning scenarios, worksheets and interactive exercises for children. The term is also used extensively in the business sector where it generally refers to cost-effective online training. From the learners point of view it provides the ability to pause and rewind ,but a classroom cannot always offer.web based learning provides choices to learners about where, when, and how learning occurs.

Mobile learning

Mobile makes easier in web based learning system. Student can get education any where any time. Mobile learning decreases limitation of learning location with the mobility of general portable devices. Mobile learning also brings strong portability by replacing books and notes .It is an asset for the remote area.

Web Based Learning Management System

Management is the central element of web based learning management.Knowledge management module , web content management module, resource sharing, communication technology are the part of web based learning management system. Blogs, wikis and discussion board the part of web based learning. There is so many software available for authoring, editing, indexing e-learning content (courses, reusable content objects), delivering, tracking and managing training/education. It have to manage all the things properly.

Future Scope

Content is easily updated. This is perhaps the single biggest benefit to WBT. In today's fast-paced business environment, training programs frequently change. With CD-ROM and other forms of training, the media must be reduplicated and distributed again to all the students. With WBT it is a simple matter of copying the updated files from a local developer's computer onto the server-computer. The next time students connect to the Web page for training, they will automatically have the latest version.

- Learning in museums or galleries with handheld or wearable technologies.
- It will be helpful for bliend through mobile learning.
- Reduce test conducting cost and save time.
- Cost-Effective Course Development & Enhancement .
- Online Question Creation

Conclusion

Using Web-based training, like all other delivery media, has advantages and disadvantages. Trainers and designer must carefully weigh these against the profiles of other options on a case-by-case basis. It provides an education any where at low cost. It is beneficial for women, physically handicapped, service man, and old person and dumb. Web based learning decreases limitation of learning location with the mobility of general portable devices.

There is a minority of students (mostly mature learners), however, who are concerned with their own level of proficiency in information technology, access to computers and the Internet. They also find that the courses are generally of static nature and they would prefer print the pages rather than read the whole lot of text online. Furthermore, they do not find that online modules help them in performing better or make the learning process seem easier for them. On the other hand, the idea of having an online course, especially for the first time increased their eagerness and motivation to participate in the class. They particularly found the networked learning environment stimulating since they felt to be "in permanent contact with peers and tutors". From the study and a description of the results, we may summarize our findings as follows. Students in general, prefer the reflector learning style. However, we also find students with other learning styles or with more than one learning style. Students prefer mostly the visual and auditory mode of perception than the kinaesthetic mode. There is no significant relationship (interaction) between preferred learning styles and the cognitive styles. This is based mainly on an individual basis for each learner. Computer-based learning does not necessarily increase student performance on the exams. However, there is increase motivation and preference of the students to learn with computers. Students do not prefer to read online, they would rather print the materials, which are mostly static pages although graphics are present. Reproducing print based material online therefore is not seen as adding value to the student learning experience and to the overall learning process.

References

[1]   Carswell, L.(2000). Distance Education via the Internet: The student experience. British Journal of Educational Technology, 31(1), 29-46.
[2]   Collins, M. (2000). Comparing Web, correspondence and lecture versions of a second-year non-major biology course. British Journal of Educational Technology, 31(1), 21-27.
[3]   World Conference on Mobile and Contextual Learning: http://www.mlearn2009.org.
[4]   The hill group, seriously fun training : http://www. hillgroup.com.