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Exploring the Role of Virtual Learning Environment in Higher Learning Institutions

Sweta

Department of P. G. Studies & Research in Computer Science, Gulbarga University, Kalaburagi, Karnataka, India

ABSTRACT

Developing countries are facing with variety of challenges that include among others poverty, poor infrastructure, poor infusion and use of Information Technology (IT), poor education facilities and lack of experienced and skilled personnel, which are affected in Learning Institutions. So to enhance the capabilities of both educators and learners by using few available resources Virtual Learning Environment (VLE) is essential. It helps to promote innovations and to encourage educators and learners to grow from traditional to virtual learning pedagogy.

Keywords: Communication, Student, Teacher, Virtual Learning Environment.

I. INTRODUCTION

A virtual learning environment (VLE) is a set of teaching and learning tools designed to enhance a student's learning experience by including computers and the Internet in the learning process. The principal components of a VLE package include curriculum mapping which is breaking curriculum into sections that can be assigned and assessed, student tracking, online support for both teacher and student, electronic communications like e-mail, threaded discussions, chat, Web publishing, and Internet links to outside curriculum resources.

II. PROPOSED METHOD

A Virtual Learning Environment is a collection of software tools supporting academic administration, teaching and research using the Internet. As information and communication is increasingly conducted online such systems have become part of the essential educational infrastructure in many higher education establishments.

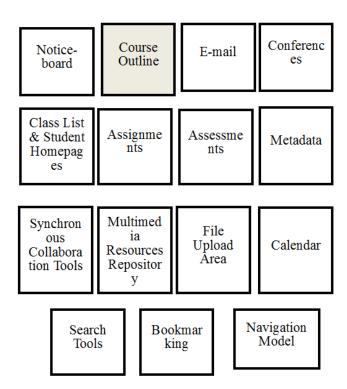


Figure 1. Components of VLE

Noticeboard

A noticeboard or announcements area is a useful feature that may well appear as soon as a student logs in to the system.

Course Outline

The course outline or schedule provides an overview of the course structure and may include dates for assignments, assessments, lectures, video conferences etc. Typically the system will provide a structured means for the tutor to create the course outline. The course outline will provide hyperlinks to the course pages themselves. In a web-based system these will be simply html-pages containing the material relevant to that part of the course.

E-mail

Most systems include a built in e-mailer that can be used to email either the tutor or individual students on the course.

Conferencing Tools

Asynchronous conferencing or discussion groups form the heart of many VLEs as they provide the means for students to engage in collaborative exchange about topics on the course.

Class List & Student Homepages

Another key feature of a learning environment is getting to know the other students on a course or for tutors to get some idea of students backgrounds, interests and aspirations. Many systems incorporate a list of students enrolled on a course – perhaps with e-mail addresses.

Metadata

Metadata is simply information about an object. It is important for categorising and searching objects according to their intended use in a particular context. A sophisticated metadata set can encompass a wide variety of information about an object.

Assignments

A VLE allows tutors to create assignments for students to complete as they work through course material. It should provide a means for students to return completed assignments to the tutor for grading and feedback.

Assessments

Some VLEs provide automated on-line quizzes for performing assessments, self-testing versions are also a feature of some systems.

Synchronous Collaboration Tools

Synchronous collaboration tools such as Chat, Shared Whiteboards, Group browsing and videoconferencing are a feature of majority of VLEs.

Multimedia resources

One major advantage of VLEs is the ease with which multi-media resources can be accessed and stored within the learning environment as an integral part of the course package. As more and more sophisticated educational materials such as interactive simulations get published on-line, the importance of multimedia facilities will increase dramatically.

File Upload Area

For truly interactive functionality students should not just be recipients of content uploaded onto the system by a tutor, but should be able to upload their own materials for other participants to look at.

Some VLEs include a facility for students to build their own materials and objects they have found into the learning environment.

Calendar

A Calendar tool is a useful feature built into some VLEs.

Search Tools

When a course structure becomes very large or there are several participants navigating around the environment by browsing and hyperlinks alone can become quite cumbersome. Consequently some

systems incorporate search tools in order to jump straight to subjects of interest or a particular person.

Bookmarking

Like search tools, a bookmarking facility can significantly decrease the amount of time spent navigating to frequently used places or items within the environment.

Navigation Model

Although navigation is not strictly a feature or tool within a VLE, it is intrinsically part of the experience of using a VLE. The navigation facility allows a user to move around the environment and the navigation model or metaphor in conjunction with the lookand-feel of the system is extremely important as it defines in many ways how the system is used.

Virtual learning environments enable students and teachers to engage in personalised education, while freeing teachers from the constraints of classroom management tasks. For a student to be able to access a 'Virtual' room as either a duplicate or extension of their physical classroom is a clear advantage for learners and teachers alike. Every educational establishment ought to integrate a VLE into their lessons and allow it to become second nature to learners and educators outside of the classroom.

Communication: opens up an infinite number of channels in the format of forums, discussion threads, polls, surveys – instant feedback either as a group or individually.

Producing work: students do not physically have to find their teacher to hand in work due to secure virtual 'hand-in' folders that have time windows.

Resource hub: teachers have infinite online storage space for ppts, docs, worksheets etc. that can either be secure or shared with students.

Dynamic home pages: teachers have the opportunity to create an exciting virtual space to represent their room/subject.

Links to outside sources : pathways to all other online learning spaces are linked via the VLE.

Embedded content: YouTube, BBC, newspapers can all be embedded as the dynamic feed of the homepage.

Podcasts & videos: both teacher- and studentproduced podcasts and videos have a shared platform; again, either secure or shared.

III. CONCLUSION

VLE offers a vast array of functionality covering academic administration, Teaching and Research delivered by a wide range of Software that has grown according to a broad spectrum of requirements. As digital information continues to permeate educational processes, the potential benefits of adopting an institutional VLE will increase. With appropriate planning and preparation, virtual learning environments can contribute towards a more creative and productive educational experience in many developing countries.

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