Learning through E – Learning

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Abstract

This paper deals with items of E-Learning construction, where the progress in the field of information technology has enabled persons to have a new educational delivery behaviours and methods such as distance learning and E-Learning.

There are many universities and collages were entered this new world of E-Learning as a major way for it to use in teach procedures. For this reason the need for pedagogical and technical knowledge to teach using the internet has emerged, and this knowledge field is slowly becoming a core competence for many teachers.

The paper sheds some lights on the importance of E-Learning to societies, universities, organizations and individuals. Also, discusses some of the important distance learning methods that are being used by educators, trainers and lectures.

For the above mentioned reasons, as an application within this context, we turn to design a web site which handles the provision of the departments' articles for all the stages in Engineering College with providing the professors and college students the abilities to share their ideas and opinions for developing this education.

Keywords: eLearning, eTeaching, eStudent, eEducation, and Information Communication Technology (ICT), Learning Management System (LMS), Learning Content Management System (LCMS).

1. Introduction

Educators are constantly looking for the best ways and means to provide an interactive learning environment to attract the attention students and encourage them to exchange views and experiences. Information technology is represented in the computer and the internet and caused by the multimedia of the most successful means to provide this rich educational environment, where the student can work in collaborative projects between the different college, and students can develop their knowledge of topics that affect them through contact with colleagues and experts with similar interests[1]. It is the students' responsibility to search for information and formulation, which develops thinking skills they have. As for the teachers, the global network enables the teacher to access the expertise and educational experiences that are difficult to access in other ways[2].

The strength of the Internet in its ability to link people across vast distances and between different sources of information, the use of this technology increases the chances of education and is spreading far beyond the scope of the college, and that what is known under the name of e-learning, which is one of the most important features of the future college[3].

2. E-Learning

E-learning is commonly referred to the intentional use of networked information and communications technology in teaching and learning[3]. i.e.; *E-learning* is a way of teaching by using mechanisms of modern communication, computer networks, and modes of multiple audio and picture, graphics, and search mechanisms, and electronic libraries, as well as internet portals, both was remotely or in the classroom. So the important is the intended use of technology in the delivery of all types of information to the learner in the shortest time and with less effort and greater interest[4].

Electronic learning "E-Learning", is a term that refers to a broad range of electronically distributed teaching and training materials. It most commonly refers to anytime, anywhere electronic or computer-supported learning and is often associated with online courses. E-Learning also often refers to the first generation of systems supporting the learning process (such as LMS , LCMS), that relied on the idea of replicating the concept of the classroom in an online setting.

E-learning can involve a greater variety of equipment than online training or education, for as the name implies, "online" involves using the Internet or an Intranet. CD-ROM and DVD can be used to provide learning materials.

While, Distance education provided the base for e-learning's development. E-learning can be "on demand". It overcomes timing, attendance and travel difficulties[5].

Education implies two connected processes: teaching and learning. Key processes of teaching and learning are realized through communication between teacher, student and content. Those three elements represent process core and they are brought together.

The speed of development and improvements of technology are reasons for changes in science and education almost in revolutionary forms. To make new generations of students capable for challenges, they need to have new competence: teamwork, self-learning, communication skills, quick adoptions to new circumference, finding, searching and validating information, critical thinking، decision making and *Information communication Technology (ICT)* skills.

eTeaching, depending on educational context, could be emerge on different levels in different shapes :
• as a part of, or addition to classical education, which creates mixed or hybrid mode or blended learning.

• as completely independent shape in which students learn in online mode, which makes eTeaching a form of distance learning.

The intake of ICT in teaching process and creating eEducation has a big influence on ways students learn[6].

2.1 E-learning management system

E-learning management system is an integrated computer system to serve the educational process as it is designed after this system to facilitate the process of interaction between the student and faculty member[7].

Learning management is a term used to define strategies that are developed to help achieve learning outcomes. A learning management system (LMS) provides the necessary tools for managing, creating, scheduling, training, or learning in an organization.   so that the term e-learning refers to any training or learning that is done with an LMS application, or that is computer based.

A learning management system (LMS) is software for delivering, tracking and managing training/education. LMSs range from systems for managing training/educational records to software for distributing courses over the Internet and offering features for online collaboration.

A learning content management system (LCMS) is software for authoring, editing and indexing e-learning content (courses, reusable content objects). An LCMS may be solely dedicated to producing and publishing content that is hosted on an LMS[8].

3. Design Web Site for E-Learning

Building a web site that will implement the concept of E-Learning is done by using Java script language, Swish program, Web page program, Agama button program, and Crystal button program. The program also includes a built in File Transfer Protocol 'FTP' publisher that allow to upload this site to the internet by pressing a publish button.

This paper deals with the design of a web site for the eStudent to help them to passes the difficulties that facing them in the delivery of the lessons at the college by communicate with internet for enlightening them with the lessons, in case of can't take it within study in the college, from where providing page's web in this site consist from many of pages that are connecting one by one, and every page contain some information that special for its own. For example (engineering department page) this page contain the all departments of the college and this page connect with another page consisting the stage for all departments and so on.

First, starting with showing the materials for all stage in Engineering College. The eStudent could take any thing from this site that need to it when he/she miss any lecture in the college. Ditto, we have a page designed on basic adding the books and lectures that special by the Profs. Within security that just own him even and not allow to the student to access it. Another page consist from general books and all lectures to all stages in college and that will benefit

all eStudents to become more elaborating and efficient for suiting the eStudents to sharing by thinking and communication one by one by internet, through this site. At last still having one page include the map of this site showing the partitions of all site with all details for this site.
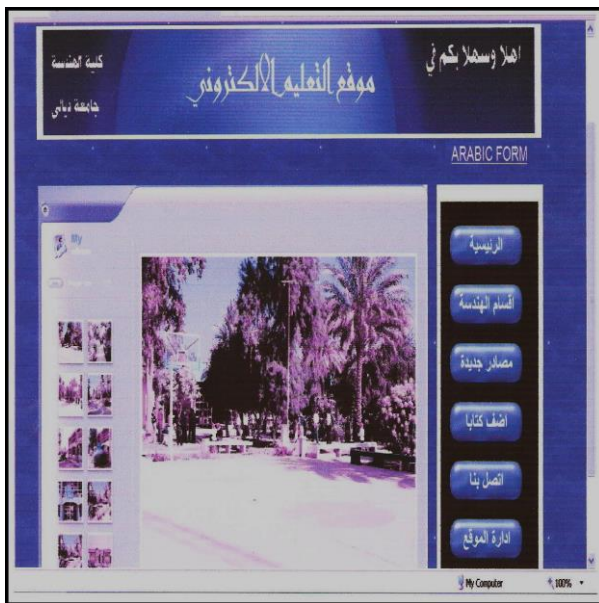
As a result for this design (a site for E-learning) we obtain the following main parts:

1. The index (main page) that represent an overview for the E-Learning site and contain the most links to other pages. In addition to the contact us page and site's map page. Figure.(1), and (2).

2. Engineering department page including (6) links for (6) departments which is connected with many sub pages that contain the main scientific materials. Figure (3), and (4).

3. The stages of Engineering department page including (4) links for (6) department which is connected with many sub pages that contain the main scientific curriculum. Figure (5), and (6).

4. add book page which is available just for the teacher lurking them to add their books and lectures. Figure (7), (8), and (9).

5. Each Arabic page associated with an English page.
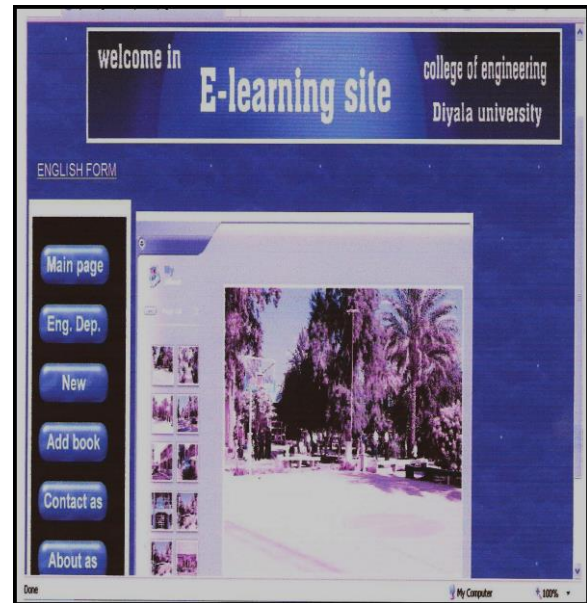
4. Conclusion

1. The main aim of this paper is to design an E-Learning site for contributing different viewpoints of student online by adjusting the teaching method which is possible to receive the scientific material in the manner that suits the student, E-Learning and sources allow for the application resources in ways that many different permit modification in accordance with the method best for the trainees.

2. The ability to show the contents of engineering departments instead of personal getting back to each department, by provide a sources for the department's articles for all the stages in engineering college to all teaching staffs in the college.

3. The benefit behind this web site is the ability to provide easiness for eStudent to use the eBooks and lectures that was not available previously on Online.

4. The services facilitation in this site which can support to the professors for uploading, adding and publishing their suitable educational eContent like eBooks and Audio and video lectures, on this site in the language understandable to students.

5. Learners can study wherever they have access to a computer and internet. i.e.; self –paced learning modules allow learners to work at their own pace. Moreover Learners may have the option to select learning materials that meets their level of knowledge and interest.

6. Successfully completing online or computer-based courses builds self-knowledge and self-confidence and encourages students to take responsibility for their learning.
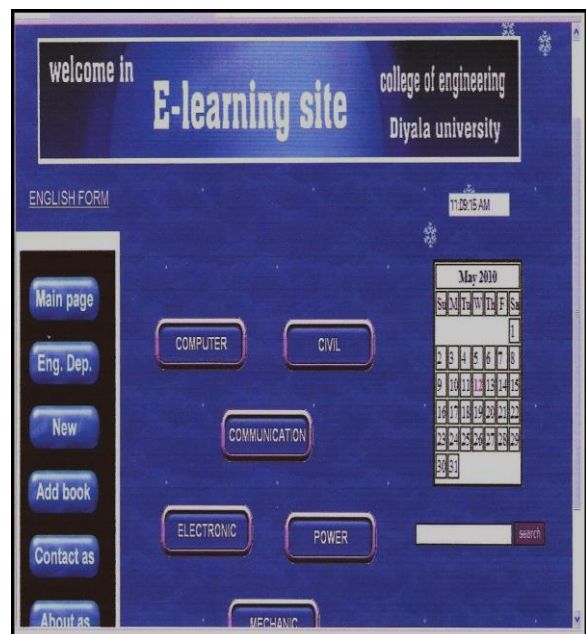
7. Development of computer and Internet skills that are transferable to other facets of learner's lives.

8. eTeaching gives us an insight into the advantages students get when teachers use informational-communicational technology (ICT), in the present teaching context.

9. In Traditional teaching methods, Teacher gives information, students listen, while in eTeaching, eTeacher is a motivator and a guide and students build their knowledge themselves.

10. Educational element is Dynamic in all its element, and Communication between students and teachers is time and place unrestricted.
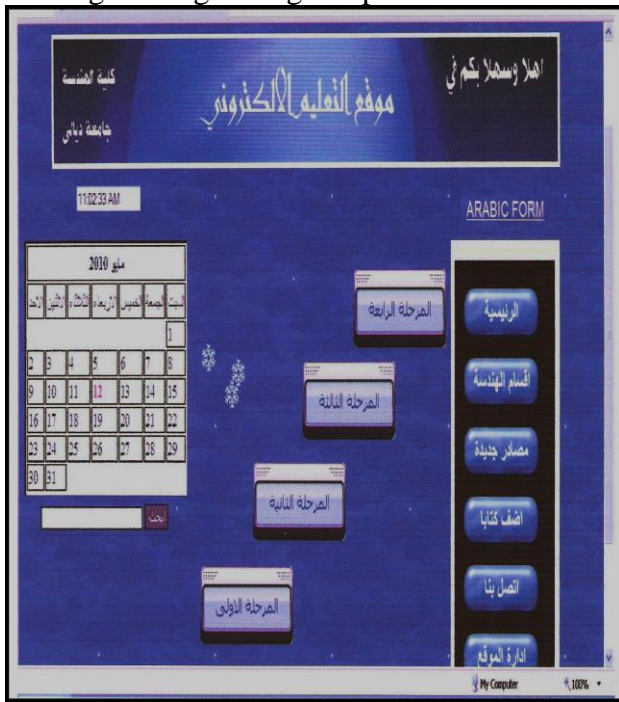

Figure(1) The Index Form(Arabic Main Page)

Figure(2) The Index Form(English Main Page).

Figure(3) Arabic Form for Engineering College Departments

Figure(4) English Form for Engineering College Departments.

Figure(5)Arabic Form for Department's stage.

Figure(6)English Form for Department's stage.

Figure(7) Add Book Page.

Figure(8) Material's Download Page.

Figure(9)Scientific Materials for the stage of Computer & Software Engineering Department.

References

1. Koh, Myung Hwa and Hill, Janette R., 2011, "Student Perceptions of Group Work in an Online Course: Benefits and Challenges", The Journal of Distance, Vol. 23, No. 2.
2. Haverila, Matti, Barkhi, Reza., 2010, "The Influence of Experience, Ability and Interest on E-Learning Effectiveness", European Journal of Open, Distance and E-Learning, printed in France.
3. Rosenberg, M., 2010, "E-Learning: Strategies for Delivering Knowledge in the Digital Age", New York: McGraw-Hill, p28.
4. Thomas W., and Dain Rauscher, 2008, "Facts, Figures & Forces Behind e-Learning", Compiled and prepared by learn frame, Merrill Lynch, Inc.
5. Som N., 2009, " E-Learning, A Guidedbook of Principles, Procedures and Practices", 2nd, Sanjaya Mishra.
6. Pratt, D. D., 2007, "Good teaching: One Size Fits All", U: An Up-date on Teaching Theory ، Jovita Ross-Gordon (Ed.), San Francisco: Jossey-Bass, Publishers.
7. Prensky, M., 2007., "Digital Natives, Digital Immigrants". On the Horizon NCB University Press, Vol. 9 No. 5.
8. Lever-Duffy, Judy and Jean B. McDonald, 2008, "Teaching and Learning with Technology", Pearson Education, Inc.,

التعلم من خلال التعليم الالكتروني

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الخلاصة

أن هذا البحث يتناول فقرات أنشاء التعليم الالكتروني، حيث أن التقدم في مجال تقنيه المعلومات تمكن الأشخاص من إن يكون لديهم طرق وأساليب إيصال تربوية جديدة مثل التعليم عن بعد والتعليم الالكتروني.

هنالك العديد من الجامعات والكليات أدخلت هذا النوع الجديد من التعليم الالكتروني كطريق رئيسي لها لاستخدامه في أساليب التعليم. لهذا ظهرت الحاجة للمعرفة التربوية والتقنية للتعلم وذلك باستعمال الانترنيت. وهذا المجال من المعرفة قد أصبح جوهر الاختصاص للعديد من الأساتذة على نحو بطيء.

أن البحث يسلط الضوء على أهميه التعليم عن بعد للمجتمعات، الجامعات، المنظمات، والأفراد. كما يناقش البحث البعض من طرق التعليم عن بعد المهمة المستخدمة من قبل المربيين والمدربين والمحاضرين.

وللأسباب المذكورة أنفا، وكتطبيق لها ومن هذا المنطلق، اتجهنا لتصميم هذا الموقع الذي يعنى بتوفير المناهج الدراسية للأقسام بكافه مراحلها في كليه الهندسة مع توفير الإمكانات لأعضاء الهيئة التدريسية وطلبة الكلية كي يتشاركوا بأفكارهم وآرائهم لتطوير هذا التعليم.