

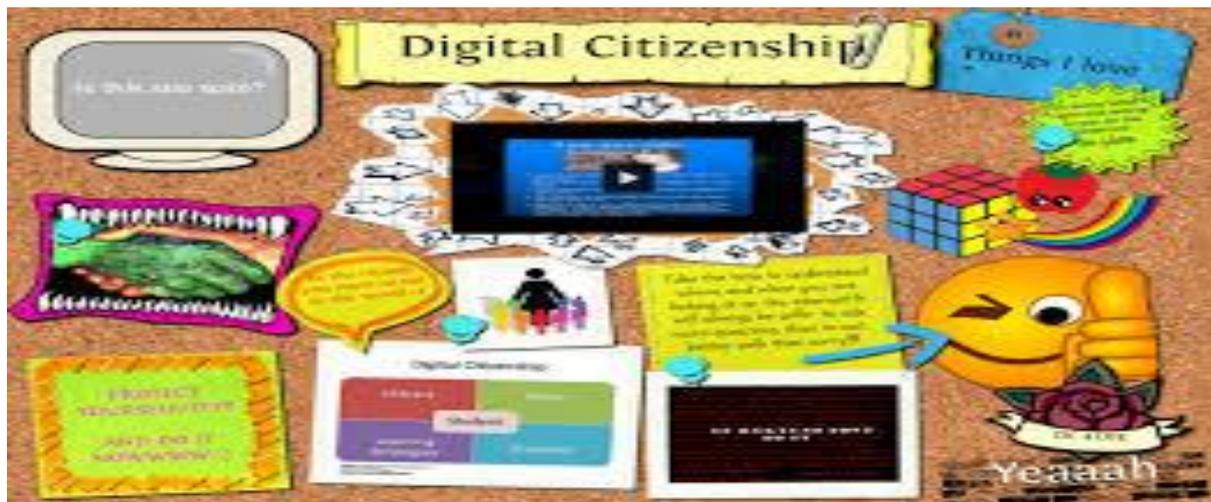
USING E-LEARNING TECHNOLOGIES TO IMPROVE QUALITY EDUCATION

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ABSTRACT



E-Learning has fully reworked the approach within which learning is imparted to students. Not like ancient chalk and board methodology of teaching, eLearning makes learning easier, easier, and simpler. Here area unit nine options of eLearning that creates it advantageous to students. Today's learners need relevant, mobile, self-paced, and personalised content. This would like is consummated with the net mode of learning; here, students will learn at their own comfort and demand. Let's have associate degree analytical scrutinize the benefits of on-line learning.

Education had perpetually been during a schoolroom of scholars with a teacher-centered method till recently in 2000s once the Physical presence of a coach (Instructor, Facilitator, or Lecturer because it could be) was being slowly replaced by data technological advances into the trade.

When you mouth a schoolroom surroundings, honestly am one in every of those ancient instructors WHO began mistreatment the first black blackboard. I even have witnessed the speedy evolution of tutorial Technologies over the years, and in fact created a frightening effort of attending plenty of skilled development courses therefore on dynamically work into the new developments.

KEY WORDS: Information technology, e-learning, ICT, online learning, global gateways, portals

INTRODUCTION

“Students do not learn much just sitting in classes listening to teachers, memorizing prepackaged assignments, and spitting out answers. They must talk about what they are learning, write reflectively about it, relate it to past experiences, and apply it to their daily lives. They must make what they learn part of themselves.” - Arthur W. Chickering and Stephen C. Ehrmann

The growth of the E-learning trade can be copied back to the Eighties and even well before that once distance learning was conducted in variety of televised courses. The convenience and affordability caused by Technology has created e-learning tools for education to be expedited from just about any place. The presence of intuitive options in most E-learning tools offers a spread of formats like videos, slideshows, word documents and PDFs. Conducting webinars for live on-line categories Associate in Nursing human action with professors via chat and message forums is additionally an choice offered to users.

The advent of Smartphone's, text electronic communication and mistreatment the net has fuelled the progress of this trade, withal the excess of message boards, social media and different suggests that of on-line communication that enable learners to stay involved and discuss course connected matters, while providing for a way of huge learner-support communal structure. In spite of its own strengths, ancient learning is proving to be costly that has created additional area for the ascension of E-learning given the very fact that its abundant quicker, cheaper and probably higher as another .E-learning technologies ar wide offered for course content and conjointly to workers in massive firms. The Human Resource Departments have effectively utilised the presence of E-learning tools. During a shell, E-learning has become a crucial talent set for all the Education coaching and Development Practitioners; It doesn't matter whether or not you're a room Teacher, helper, a tax assessor, moderator, Lecturer, ETQA government etc.

Your data regarding E-learning can save Associate in nursing oblivious walk down the road of irrelevance ultimately. As you will have determined, these new technologies clean up the people gap given the “Hitech” attribute accorded to post-modern learners. Thus it's pertinent that explosive trace detection practitioners begin to hitch workshops and courses for functions of continuous education and reducing the risks of structural state.

In the fast world of e-learning the offered technologies to create a course new and exciting ar continuously dynamic , and course content will and will be updated quickly to offer students the

terribly latest info. This is often particularly necessary if the e-learning coaching is being given to workers during a sector wherever keeping up-to-date on trade developments is of the utmost importance. This is often one in all the explanations why several businesses are currently giving coaching via e-learning - different reasons includes low prices and also the ability for workers to check in their own time and place.

AIMS OF E-LEARNING

The aims of e-learning are

- to offer flexible learning possibilities in degree and continuing education and also in lifelong learning
- to decrease the proportion of lectures and increase the proportion of individual work in the study process
- to make the information and study materials better available for learners
- to diversify the study process and make it more interesting, efficient and contemporary
- to facilitate the cooperation with other Estonian universities and also promote international cooperation

Web-based learning enables us to offer alternative learning possibilities for the people with special needs, from remote areas, women with small children, full-time workers and Estonians living abroad.

Overall, traditional learning is expensive, takes a long time and the results can vary. The importance of E-learning is now a given fact and it can offer an alternative that is much faster, cheaper and potentially better.

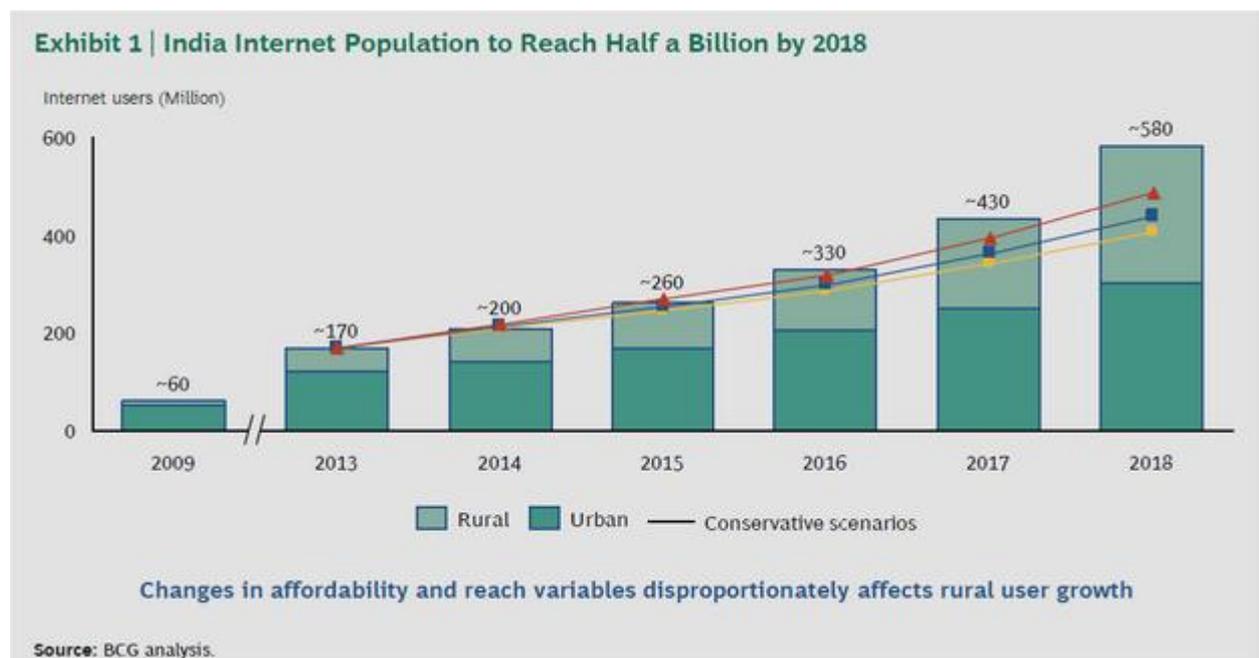
POSSIBLE GOALS FOR E-LEARNING

1. To increase access to learning opportunities/increase flexibility for students
2. To enhance the general quality of teaching/learning.
3. To develop the skills and competencies needed in the 21st century, and in particular to ensure that learners have the digital literacy skills required in their discipline, profession or career – or, put simply, to get work in the future
4. To meet the learning styles/needs of millennial students
5. To improve the cost-effectiveness of the post-secondary education system
6. To stay at the leading edge of educational technology developments/to digitalize all learning – or put another way, to respond to the technological imperative

7. To de-institutionalize learning/to enable self-managed learning.

8. To embark on a journey of mystery to see where it will take me.

It can be seen that these goals can be expressed in different ways and will appeal differentially to different stakeholder groups. Some may be seen as sub-goals of others. To some extent, in the long run, what really matters is that whoever is using e-learning is clear as to their reasons why and what they are hoping to achieve as a result. This graph is also showing the use of internet among the population



So after understanding this graph we can say that maximum part of the total population is using internet. All this shows that we become dependent on internet and its demand is also increasing day by day. Changes in student and teacher roles in teacher-centred and learner-centred learning environments resulting from ICT integration also changing respectively.

LEARNING ENVIRONMENTS

Teacher-centred

Student role

- Passive recipient of information
- Reproduces knowledge
- Learns as a solitary activity

Teacher role

- Knowledge transmitter, primary source of information, content expert, and source of all answers

- Controls and directs all aspects of learning

Learner-centred

Student role

- Active participant in the learning process
- Produces and shares knowledge, participates at times as expert
- Learns collaboratively with others

Teacher role

- Learning facilitator, collaborator, coach, mentor, knowledge navigator, and co-learner
- Gives students more options and responsibilities for their own learning

The ever-changing nature of faculties led to by the mixing of ICT in teaching and learning is supported by an extra United Nations Educational Scientific and Cultural Organization publication (2004) that has mutually of its major themes however ICT will produce new, open learning environments. Quite the other previous technology, ICT area unit providing learner's access to huge stores of data on the far side the varsity, also like multimedia system tools to feature to the present store of data.

E-learning has redefined the data and ability acquisition landscape. Fashionable academic technology, tools and software system area unit providing learners a lot of participating and effective academic expertise. Studies reveal that over forty one.7% p.c of worldwide Fortune five hundred corporations area unit nowadays victimization e-learning technology to instruct staff and this figure is probably going to rise steady within the close to future. A report by IBM states that corporations United Nations agency incorporate e-learning tools and techniques will doubtless boost productivity by up to five hundredth, which for each \$1 a corporation spends; it will boost productivity by \$30.

Regardless of the budget and therefore the size of your workers, as a company, publisher, or an establishment, you'll be able to reap made dividends by moving you're coaching on-line to the e-learning platform.



We add 8 compelling reasons to prove how e-learning can help you reduce training costs, improve productivity, and reduce employee turnover rate.

- **Reduce coaching prices** – By adopting e-learning software package, will you'll be able to eliminate the prices for written coaching material as workers can realize all the data they have on a web coaching platform. Yes, AN initial investment during a cloud-based e-learning software package is concerned; however, the maintenance prices square measure stripped-down in comparison to the manual learning tools. E-learning eliminates the requirement for onsite instructors which suggest that you simply will additional bring down prices since you ought not to pay money for their services and travel and accommodation.
- **Deploy content quickly** – instead of look ahead to coaching material to be written, you'll merely transfer it and share across your organization. {to illustrate|for instance|for example|as AN example|as an instance|parenthetically|let's say|maybe} with an example, you notice that your offshore staff would like some extra coaching supported recent figures. You'll use the online conferencing feature of the software package to quickly develop and deploy a webinar on the core skills and instantly share with the employees via the web.
- **Access info, anytime and anyplace** – provide your workers the chance to access info anyplace and at the time after they most would like it. For example, a worker must remember steps to supply a client refund – the person will merely login to the relevant e-learning module, access the steps and serve the client satisfactorily. Unneeded to mention a hep worker will guarantee higher client satisfaction and higher business practices.
- **Learn at your own pace** – E-learning tools permit you to find out at your own pace, i.e., you'll get back a learning module many times to clarify doubts and absolutely grasp its objectives. Distinction this to a standard setting wherever all learners square measure hurried through the modules during a schoolroom otherwise you to maneuver at a similar pace as your co-learners. E-learning, therefore, offers every learner the chance to completely absorb the data, gain the mandatory skills at every level of the coaching so go on to following module.
- **Improve talent retention** – E-learning software package square measure designed to produce a additional interactive, participating expertise through reality-based situations and games. They even have in-built assessment options that alter employees to digest info effectively and check during virtual surroundings before implementing in period.

- **Simple and fast updates** – If you would like to update or add a coaching module or policy and inform the employees concerning the changes, you ought not to print manuals, reference guides, or letters. a couple of clicks of a mouse is all that it takes to feature the updates within the e-learning software package and send alerts to the staff creating it necessary for them to log in and study the new procedures or policies. You'll additionally add links to articles, webinars, videos, and references that they have to remain update, fine-tune their skills, and beat competition.
- **Reduce turnover rate** – By giving your workers regular coaching and self-paced learning modules, you'll additional their skilled goals and keep them driven to boost their on-the-job performance. The self-paced and self-evaluate coaching modules permit them to pinpoint their gray areas and realize their core strengths and therefore become higher workers and higher advocates of your whole.
- **Contribute to the reason behind the surroundings** – A recent study by Britain's university reveals that e-learning is incredibly eco-friendly and consumes ninetieth less energy than ancient courses. It additionally reduces greenhouse gas emissions (per student) by up to eighty fifth. At a time once rising pollution levels square measure a worldwide concern, as a socially accountable company, you'll do your bit to save lots of the surroundings Advertisement.
- **Reduce training costs** – By adopting e-learning software, you can eliminate the costs for printed training material as employees can find all the information they need on an online training platform.

ADVANTAGES OF E-LEARNING

- You are able to link the various resources in several varying formats.
- It is a very efficient way of delivering courses online.
- Due to its convenience and flexibility, the resources are available from anywhere and at any time.
- Everyone, who are part time students or are working full time, can take advantage of web-based learning.
- Web-based learning promotes active and independent learning.
- As you have access to the net 24x7, you can train yourself anytime and from anywhere also.

- It is a very convenient and flexible option; above all, you don't have to depend on anyone for anything.
- 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.
- Through discussion boards and chats, you are able to interact with everyone online and also clear your doubts if any.
- The video instructions that are provided for audio and video learning can be rewound and seen and heard again and again if you do not happen to understand the topic first time around.

DISADVANTAGES OF E-LEARNING

- Well, there are not many disadvantages of eLearning, the main one being that you get knowledge only on a theoretical basis and when it comes to putting to use whatever you have learnt, it may be a little different. The face-to-face learning experience is missing, which may matter to some of you.
- Most of the online assessments are limited to questions that are only objective in nature.
- There is also the problem of the extent of security of online learning programs.
- 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.
- The assessments that are computer marked generally have a tendency of being only knowledge-based and not necessarily practicality-based.

CONCLUSION

Due to the wide set of advantages it provides to students, eLearning has become quite in style and appreciated among students everywhere the planet. During this century the usage of communication and data process computer code, production computer code area unit improved plenty. Conjointly next generation of these tools won't be basic computer code running on digital devices solely in laptops or computer enabled devices like cell phones, PDAs, personal music players or notebooks. Succeeding generation of the digital world can embrace interaction inside the whole surroundings wherever embedded devices are going to be a lot of intelligent with instant and continuous property to massive networks like net (Microsoft analysis, 2009). Conjointly these devices can allow us to store great amount of information (Memories for keeps Project, 2009) the maximum amount as we want which can allow us to stay each moment and movements in our lives. In those cases we are

going to be living in surroundings wherever the knowledge are going to be keep out of our brain. conjointly the knowledge are going to be on the market instantly (Ambient Networks,2006) once we want it and can be searched with many filtering mechanism that match human thinking by mistreatment linguistics approaches (Hakia, 2009). Thus we have a tendency to won't have to be compelled to worry on the brink of notice specific data to attack a tangle or create one thing within the work place. In those cases within the future, the trail of educational style ought to be reconsidered.

REFERENCES

Ambient Networks.(2006). Retrieved from: <http://www.ambient-networks.org> Ardito, C., De Marsico, M., Lanzilotti, R., et.al.(2004).Usability of E-learning tools. Proceedings of the working conference on advanced visual interfaces.

Audacity. <http://audacity.sourceforge.net/>

Barnes, D. (1989) Active Learning (Leeds, University of Leeds TVEI Support Project)

Bonwell, C.C. & Eison, J.A. (1991) .Active Learning: Creating Excitement in the Classroom. ASHEERIC Higher Education Report No. 1, George Washington University, Washington, DC

CEN/ISSS WSLT. (2009). retrieved from: <http://www.cen.eu/CENORM/aboutus/index.asp>

Chen, M. & Chen, W. (2006). Learner motivation and e-learning design: a multinational validated process. Retrieved December, 12, 2009

from:<http://www.gsis.kumamoto-u.ac.jp/ksuzuki/resume/journals/2004a.pdf>

Chyung Y., Winiiecki, D. & Fenner, J. A. (1999) Evaluation of effective interventions to solve the dropout problem in adult distance education

Clearly, T., & Zimmerman, B. J. (2001). Self-regulation differences during athletic practice by experts, no-experts, and novices. *Journal of Applied Sport Psychology*, 13, 61–82.

Cocea, M & Weibelzahl, S., (2006).Motivation – Included or Excluded From e-Learning. In Kinshuk, Sampson, D. G., Spector J.M., Isaias, P.,

Cognition and Exploratory Learning in Digital Age, CELDA 2006 Proceedings, pp. 435-437.

Cocea, M. (2006). Assessment of motivation in online learning environments. In: V. Wade, H. Ashman, B. Smith (Eds.) Adaptive Hypermedia and Adaptive Web-Based Systems, 4th International Conference AH 2006 Proceedings, Springer-Verlag, pp. 414-418

Coppola, C. & Neelley,E.(2004).Open source - opens learning. Why open source makes sense for

education. R-Smart Group. Retrieved from: www.rsmart.com

Corpus, J.; McClintic-Gilbert, Megan S. Hayenga, & Amynta O. (2009). Within-Year Changes in Children's Intrinsic and Extrinsic Motivational Orientations: Contextual Predictors and Academic Outcomes Contemporary Educational Psychology .v34 n2 p154-166.

Deci, E. L., Koestner, R., & Ryan, R. M.(2001). Extrinsic rewards and intrinsic motivation in education: Reconsidered once again. Review of Educational Research, 71(1), 1-27.

Deci, E.L., Koestner, R. & Ryan, R.M. (1999). A Meta-Analytic Review of Experiments Examining the Effects of Extrinsic Rewards on Intrinsic Motivation. Psychological Bulletin, Vol. 125, No. 6, pp. 627-668.

Entwistle, N. J & J. D, Thompson. (1979). Motivation and Study Habits, Wilson, Higher Education, Vol. 3, No. 4, pp. 379-39 eXe. <http://exelearning.org/>

Floridi, L. (2004).The Blackwell guide to the philosophy of computing and information.BlackWell:NY.

Free Open Software. (nd.). Org.FOSS. Retrieved from

http://freeopensourcesoftware.org/index.php?title=Main_Page

GNU Image Manipulation Program (GIMP). <http://www.gimp.org/>

Hakia Inc. (2009).Hakia Semantic Search. Retrieved from <http://company.hakia.com/technology.html>

Hartley, M. (2008). Is Open Source the Answer to Software Piracy? Retrieved from:

http://itmanagement.earthweb.com/article.php/31771_3721106_2/Is-Open-Source-the-Answer-to-Software-Piracy.htm

IEEE.(2002).IEEE Standard for Learning Object Metadata, IEEE 2002; Soft cover; 2002; ISBN 0-7381-3297-7; Product No.: SH95001-TBR; IEEE, Standard No.: 1484.12.1-2002

hmidt, C., Stephen, F., Zdzinski, & Ballard,L. (2006). Motivation Orientations, Academic Achievement, and Career Goals of Undergraduate

Music Education Majors, Journal of Research in Music Education, Vol. 54, No. 2, pp. 138-153

Shannon, C. (1949). Communication Theory. The Mathematical Theory of Communication. .W. Weaver.

Shellnut, B., Savage, T. and Knowlton A. (1998). Using the ARCS Model to Design Multimedia College Engineering Courses. Report Retrieved December, 12, 2009 From:

http://www.eric.ed.gov/ERICWebPortal/custom/portlets/recordDetails/detailmini.jsp?_nfpb=true&_ERICExtSearch_SearchValue_0=ED4

23861&ERICExtSearch_SearchType_0=no&accno=ED423861

Shramm, W. (1954). "How Communication Works," in *The Process and Effects of Communication*. Urbana: University of Illinois Press. pp. 3-26.

Siebert, J., Litzenberg, K., Gallagher, R., Wilson, C. & Dooley, F. (2006). Factors Associated with Students' Academic Motivation in Agricultural Economics Classes. *American Journal of Agricultural Economics*, Vol. 88, No. 3, pp. 750-762.

Suzuki, K. & Keller, J. M. (1996) Creation and cultural validation of an ARCS motivational design matrix, paper presented at the Annual Meeting of the Japanese Association for Educational Technology, Kanazawa, Japan.

Swan, K. (2002). Building Learning Communities in Online Courses: the importance of interaction. *Education, Communication & Information*, Vol. 2, No. 1.

Tuparova, D. & Tuparov, G. (2006). Learning paths in open source e-learning environments. *Current Developments in Technology-Assisted Education*