

A Study on Effectiveness of E-Learning Technology among College Students

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To Cite this Article

I Joseline Steffi and V Jenifer, "A Study on Effectiveness of E-Learning Technology among College Students", International Journal for Modern Trends in Science and Technology, Vol. 06, Issue 04, April 2020, pp.:135-138.

Article Info

Received on 08-March-2020, Revised on 01-April-2020, Accepted on 06-April-2020, Published on 11-April-2020.

ABSTRACT

The major objective of the study reported here is to identify the effectiveness of e-learning and what are the techniques they are used in e-learning process. Research step include Research steps employed include (1) conducting a review of relevant literature reporting success as well as challenges on e-learning teaching delivery has been experiencing in the college; (2) developing a list of the major principles for e-learning (efficacy, student empowerment, and academic integrity) as well as means relevant to achievement of each of those principles based on a review of literature; (3) selecting a sample from college students and techniques involved in e-learning in college. The study finds strong academic support in matters of efficacy and student empowerment for e-learning teaching and identifies some concerns or challenges respondents perceive for achieving and maintaining an adequate integrity of online courses.

KEYWORDS: E-learning, student empowerment techniques, academic integrity, efficacy.

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I. INTRODUCTION

This paper endeavour to contribute to evaluative literature relevant to the e-learning technology. We mainly point out the views and understanding capacity of students and instructional and instructional technology professionals to assess what they believe are the potentials, strengths, and limitations for the teaching-learning process in e-learning. The study reported here was initially focused at identifying selected evaluative principles in our colleges. However, the scope of this aim was later expanded to identify predominant principles and means for analyzing the online teaching-learning process in general.

E-learning is a creation of education using the internet or multi-media tools using the web. E-learning has picked up in recent times due to the easy access to the web, as well as to meet the time

constraints of the people. Due to geographical, logistic, family and work barriers, many individuals are not able to do such degree courses. Through these e-learning programs, one need not sit for lectures throughout the day but instead can take these classes on the go. In between work, while travelling, after classes, etc. All they need is a good connection to the internet. E-learning also save on your money. It cuts down on infrastructural and physical teaching hours required.

Students are free to choose from a wide variety of courses to do online. Many colleges have also begun accepting credits received in online courses which is the most recent breakthrough in online education. These online management courses give students the ease and flexibility to

plan their study time around their day and not the other way around.

Most prestigious education institutions of the world offer online education, institutions like Harvard, Penn University, Stanford, University of Michigan, Yale etc. Not only education institutions even companies offer online education such as Google and IBM. Over the year there are many websites which have come to live which offer online courses which are created by themselves and also act as middlemen for delivering various courses by various companies to students for Ex: Coursera, Khan academy, Udemy etc.

In online education the teaching methods which are used are very innovative which help the students to understand the concept easily and faster. The various methods include lectures, discussions, demonstrations, games, recorded lectures, transcripts of the lecture taught. Animations and videos and the lost just goes on. It is also mentioned that online degrees hold a very high and strong value and that Coursera certificates are the highest certificates which are passed around in LinkedIn.

II. REVIEW OF LITERATURE

Anderson T. (2008) has defined the social software as "a software that supports the group communication" There are many ways to communicate in the group using software or technology. The various ways to interact in the group are email, Listserv, Discussion Forum, Blogs and Virtual Classroom. The group interaction can take various forms i.e. one to one or one to many.

Staples, S. D. (2010) framed that there are many device that can connect the teacher with the students and one students with other students these set of tools are referred as social network tools. Thus they allow the users to generate their own profile and permit them to communicate with another set of connected people on social network. By this a student can create a personal network.

Greg, Lindon (2011) learnt that online training or web based training can be very beneficial for the learner. Students can face lot of problem while attending the class then the computer can help the student in coming to the solution. Computers can authorise the patter of mistakes and can suggest the learner to take precaution steps to come to the solution or to find the answer to the question.

Watson J., Murin A., et al. (2012) states that the online learning is a group of distance learning.

Online learning is carried or helped by Internet that allows the web-based delivery models in a structured learning environment. In online learning environment teachers are distanced from their students.

III. OBJECTIVES

1. To identify the extent of usage of various online learning methods in the context of technical education
2. To examine the factors that determine the online learning effectiveness of learners.
3. To identify the benefits and limitations faced by learners in leveraging online learning methods.

IV. SAMPLE AREA, SIZE AND DESIGN

In this method the sampling method was stratified random sampling where the data of male and female who were aware of online learning technology. Both the primary and secondary data has been used for the study. The research had taken 100 beneficiaries from the college students. The study was undertaken in Coimbatore city.

TABLE 1: Percentage Analysis

PERCENTAGE ANALYSIS	GROUP	FREQUENCY	PERCENTAGE
Age group of the Respondent (Years)	less than 25	96	96.0
	26-35	4	4.0
	36-45	0	0
	46-above	0	0
Gender	Male	44	44.0
	Female	56	56.0
Educational Background of the Respondents	Bachelor's Degree	60	60.0
	Master's Degree	36	36.0
	Diploma	1	1.0
	M.Phil Degree	1	1.0
	Doctorate	2	2.0
Place of Residence	Semi urban	21	21.0
	City	79	79.0
Marital Status	Married	3	3.0
	Unmarried	97	97.0
Does your College or University currently offer any fully online courses?	Yes	58	58.0
	No	22	22.0
	Maybe	20	20.0
Does your college provides E-learning platforms like Google Classroom & Mykclassroom?	Yes	93	93.0
	No	3	3.0
Which of the following Technologies do you (or your	Electronic Whiteboards	13	13.0
	Online test and examination	29	29.0

instructors) use?	tools			online instructors			
	Videostreaming	2	2.0		No influence	11	11.0
	All the above	56	56.0		low influence	9	9.0
What type of degrees, programs, or credentials does your college or university currently offers through online learning?	Certificates	66	66.0	medium influence	46	46.0	
	Associate Degrees	6	6.0	Significant influence	18	18.0	
	if any	28	28.0	Extremely high influence	16	16.0	
What type of communication tools does your instructors use?	Discussion forum	5	5.0	How much influence do you have on the future plans and directions for online learning within your college of university?	Very good	33	33.0
	Gmail	57	57.0	How will the quality of online learning be most effectively measured?	Good	51	51.0
	Instant messaging	4	4.0		Undecided	14	14.0
	All the above	34	34.0		Bad	1	1.0
What type of Social networks does your instructors use?	Facebook	2	2.0		Very bad	1	1.0
	Linkedin	1	1.0	What is your level of satisfaction in E-learning?	Highly satisfied	26	26.0
	Whatsapp	83	83.0		Satisfied	47	47.0
	Others	14	14.0		Neutral	23	23.0
I am very Knowledgeable in the use of technologies?	Strongly disagree	10	10.0		Dissatisfied	2	2.0
	Moderately disagree	3	3.0	How much experience do you have in E-learning platform?	Highly dissatisfied	2	2.0
	Slightly agree	27	27.0		0 - 1 year	47	47.0
	Moderately agree	38	38.0		1 - 3 years	30	30.0
During the next few years, which of the following factors will most significantly affects the success of the online programs?	Strongly agree	22	22.0		3 - 5 years	16	16.0
	Improvement in online technologies	42	42.0		More than 5 years	7	7.0
	Marketing	14	14.0	What kind of course materials do you obtain from your instructor?	Assignments	18	18.0
	Monetary support	8	8.0		Test/quizzes	8	8.0
	Rigorous quality management in accreditation process	11	11.0		Weblinks	4	4.0
	Technical competency of	25	25.0		Course notes	3	3.0
					All the above	67	67.0
				What was the level of compatability do you achieve from E-learning platform while comparing with face to face learning?	Highly satisfied	27	27.0
					Satisfied	40	40.0
					Neutral	28	28.0
					Dissatisfied	3	3.0
					Highly dissatisfied	2	2.0

TABLE 2 - ANNOVA ANALYSIS

Factors		Sum of Squares	df	Mean Square	F	Sig.
i. Age and the Experience on elearning	Between Groups	.735	1	.735	.824	.366
	Within Groups	87.375	98	.892		
ii. Educational background and the factors affects the success of online learning	Between Groups	8.188	4	2.047	.717	.582
	Within Groups	271.122	95	2.854		
iii. Place of residence and the level of compatability from face to faec to online learning	Between Groups	.097	1	.097	.114	.736
	Within Groups	83.213	98	.849		
iv. Educational background and the quality of e - learning	Between Groups	5.051	4	1.263	2.264	0.68
	Within Groups	52.989	95	.558		

V. SUGGESTION

The online learning joins learners with many people around the world. You can gather many ideas from this learning method. So stays connected with your online classroom and get as many updates as you can. If your teacher is providing lecture online, then you and your fellow learners can listen carefully and discuss the content with each other and the instructor.

Online mediums and applications offer excellent opportunities to create various groups to foster connections and knowledge exchange between student and teacher and among learners. The resulting community will provide a healthy environment for learning.

The online medium allows for mixing of audio and visual. Learners can convert study material into AV slides and watch the file whenever they choose. The AV method is one of the most important pedagogies of the modern era. It expands the brain's capacity without any stress. When a person's eyes and ears are completely engaged, his or her concentration is improved automatically.

Bloomsburg University professor Karl Kapp explains that games can be used to encourage study and to reinforce training. Gamification of training can help learners gain and retain new skills. Many organizations and universities are following this pedagogy nowadays.

Mobile devices are very effective for e-learning. People carry their mobile devices with them everywhere, so they can start a study session anywhere, anytime. Smartphones also have multiple options for communication.

Find ways to humanize your course – introduce yourself and ask the learners a few questions. If your course doesn't allow for live interaction, consider using a pre-recorded video where you share a little about yourself to break the ice to help to build rapport with your learners.

VI. CONCLUSION

Online education is a form of educational teaching that is delivered using the internet to students using their computers or various other electronic devices such as mobiles or tablets. During the last few years, online degrees and courses have become popular substitute for a broad range of non-traditional students, including those who want to carry on working full-time jobs or raising families. generally, online degree programs and courses are offered through the

school's online learning platform, while there are slight differences, the main difference between online and usual learning is the fact that online education frees the student from the usual events of on-campus education such as travelling, organizing their agenda around classes, and being physically present for every one of their classes. Hence online education makes its it very convenient to people who are not able to be physically present due to various reasons, education is a luxury everyone should receive as it helps in the development of mankind

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