

An Analytical study on Effectiveness of E-Learning

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Abstract

Nowadays, the rapid development of information technology of the World Wide Web, internet, and personal computers, e-learning has been increasingly adopted by the learners. The new educational phenomenon has been discovered, which is enhancing learning skills with the help of digital technology. This paper indicates upon a comparative study of E-learning teaching techniques with traditional teaching techniques. It also highlights that what e-learning is, why it's valuable. The research tools exploited the effectiveness of e-learning techniques over traditional teaching methods. For the study primary data has collected from 120 respondents of Jaipur District with structured questionnaire. This paper focuses effectiveness of e-Learning over traditional face-to face learning. The study also highlighted that high positive feedback attained by e-learners as compared to traditional learners for all the user categories.

Keywords: E-Learning, Face-to-Face learning, online learning, traditional learning, virtual learning

INTRODUCTION

Every coin has two sides; however each side is distinct. But they are very closely related although they seem different. Traditional learning process and e-learning process are often two ways of the education. However, each individual's has their choice what method they elect for the learning process.

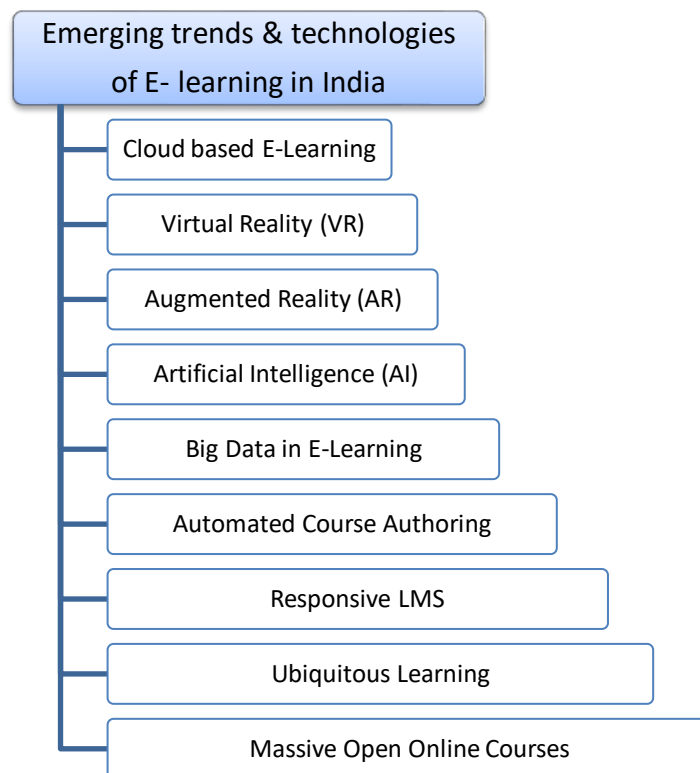
Traditional learning mostly focuses on the classroom education. It is restricted to a certain time limit and to a location. Learners should attend the classes, join the group discussions, and attend all the group activities to get education. All learning activities will be supervised by teachers. It helps them interact with other learners of their own age, be better disciplined, follow a regular schedule, and improve their physical fitness and mental alertness. This allows teachers to know the students and evaluate their strengths and weaknesses better, act as mentors, and guide students in their career possibilities. Learners can directly share their views and clarify their own queries with the teacher, thus getting their questions answered right away. The main motive of traditional education is to pass on the values, manners skills and the social practice to the next generation which is necessary for their survival.

On the other hand due to COVID crises, e-learning concept immense as a gift to individual and society where all the learning is done at learner convenient level. Due lockdown and quarantine period have made significant changes in almost all the sphere of life including the education. E-learning process has also transformed the educational sector. E-learning provided an opportunity to the learners to enrich their knowledge by this process.

The term E-learning stands “Electronic learning”, whereas few people relates E-learning for evolving, enhanced, extended, everywhere, every-time, and everybody, as the e-learning can be done anytime and anywhere as long as the learner has the access. E-Learning has played a vital role to boost knowledge with the help of electronic devices. It includes web-based learning, computer-based learning, virtual classrooms, digital collaboration, delivery of content through internet, intranet/extranet (LAN/WAN), audio-and videotape, satellite broadcast, interactive TV and CD-ROM. Several electronic devices like computers, tablets, or phones etc.

The key benefits of e-Learning are flexibility, convenience and ability to work at any time and any place where an internet connection is available. The e-learning modules would provide the students more independency. Learners have an opportunity to choose what they want to learn and what they don'tis in low cost .So many learners prefer to learn E-education instead of classroom learning.

Some of the emerging trends and technologies of E- learning in India are:



LITERATURE REVIEW

Weng J F et al.(2010) highlighted that effectiveness of using e-learning in teaching in tertiary institutions and pointed various advantages or benefits of E-learning. The author focused that in this type of learning delivery, information and communications technology are followed in synchronous and asynchronous modes .

Valentina A (2014) stated that e-learning was really taking its shape. This learning technique is completely changing the traditional learning pattern.

Gaur S, et al. (2015) The study showed that e-learning techniques attained high response as compared to traditional teaching methods for all the user categories such as students, researchers, teachers and staff members. It is also clear from the graph above that 70% of teachers appreciate e learning and only 30% of teachers appreciate traditional teaching methods.

Noesgaard SS (2015) This paper analysed factors promoting the effectiveness of e-Learning. This paper identified multiple ways to define effectiveness, with 'learning outcome' as the most prominent definition.

Vivekananda M. (2017) stated that E-learning is a boon to the society and it can reach to any part of the world and maximum benefits can be obtained from it by anyone and at anytime. This research also highlighted that e-learning will save lots of time and money of the learners or users and it is best tool for learner to learn according to their own phase and whole future of education will turn its way on it.

Elfaki NK et al. (2019) the study concluded that students who participate in E-learning achieve better grades than those who studied traditional approach. E-learning center, used of E-portfolio has significantly improved students' attitudes, motivation and academic achievements.

OBJECTIVES OF THE STUDY

The present study is undertaken to identify the various factors which determines the learning techniques. For this purpose, the objectives of the study are as follows:

1. To find out driving factors and barriers of e-learning implementation.
2. To assess the perceptions and attitudes of potential learners about e-learning education.
3. To study the key challenges faced by learners in an e-learning program

Research Methodology

The present study focuses to recognize the effective technique of learning and to know the factors which influences the learning techniques. The study based on primary as well as secondary data. Primary data has collected from 120 respondents of Jaipur District with structured questionnaire. A Likert-scale is used in survey research, that measures respondent's attitudes, opinions or perceptions. Secondary data was collected from internet. The data gathered has been processed and tabulated by using M.S. Excel.

Tools for Data Analysis:

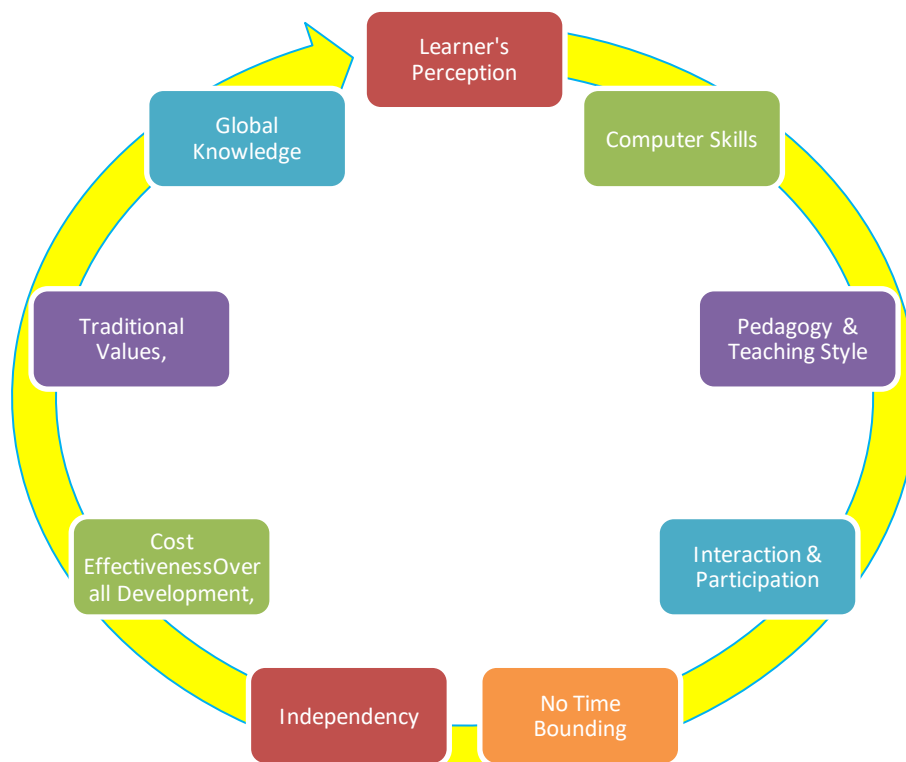
The following tools & techniques were used for analyzing the data collected from respondents.

- Comparative Chart
- Percentage Analysis

Major influencing determinants of learning techniques

Education plays vital role in society .Education is important to the pace of the social,economic and political development of any nation; therefore effective learning process is extremely essential.The process of learning is to be greatly influenced by the various factors likeLearner's Perception, Computer Skills, Pedagogy & Teaching Style, Interaction & Participation, No Time Bounding, Independency, Cost Effectiveness, Overall Development, Traditional Values, Global Knowledge, mental health, social attitude, gender,age etc.. Some of them are personal factors that influence the learning process which depends on the interest of learner.

This study reveals the main influencing factors regarding traditional teaching and e learning process. Some of the important factors can be summarized in the following way.



The above Figure: show the major **influencing determinants of learning techniques**.

This research focused to assess themajorly influencing factor.

<i>Groups</i>	<i>Responded who are agree & strongly</i>	
	<i>Agree</i>	<i>Percentage</i>
Learner's Perception	85	72.65
Computer Skills	81	69.83
Pedagogy & Teaching Style	62	59.05
Interaction & Participation	63	62.38
No Time Bounding	76	68.47
Independency	79	69.30
Cost Effectiveness	96	84.96
Overall Development	65	58.56
Traditional Values	39	35.78
Global Knowledge	80	68.97

The above analysis reflects that out of 120 sample majorly people influenced by digital learning due to cost effectiveness. The result indicates that approximate 84.96% E- learners does not require to travel and they saves their time and money .In digital learning 68.47% learners just have to log in to the application or portal at any point of time which also majorly reflects in the study. The results also indicates that learners perception and their satisfaction is high towards e learning near about 72.65% ,particularly in the transition period to online learning from tradition approach. But near 35.78% learner believes in tradition learning technique due to teachers provides a stage to showcase role models etc.

Difference: Traditional Learning v/s E-learning

Traditional learning make learning monotonous and the learners tends to lose their interest, but online learning has made it interesting, fun and a cakewalk. The following table summarizes several points regarding the comparison between traditional learning and e=Learning:

Criteria	Traditional Learning	E-learning
Interaction	Interaction usually more than one student at a time in a class.	Interaction one student in a class at a time.
Subject Matter	The teacher conducts the lesson according to the study program and the existing curriculum	They focusses to customize learning
The learning style	Teachers guide to learners and help	The e-learning tends to be more

	them to plan your future studies.	independent.Learners have the liberty to choose what they want to learn and what they don't.
Emphases in the Learning Process	More interactive and memorable than voluminous textbooks and face to face	It empowers students by getting them to be more interested in learning and expanding their horizons.
Devices	Education center arrange all required devices like OHP projector etc.	learning resources by the people who are desiring to learn and equip themselves like computer etc
Flexible	Worrying about timetables and schedules	It will much more flexible and the flexibility to choose study at any time from any place at their convenient time for the learning
Privacy of Learning	Learning among the students in a class.	Learning is a private experience
Cost	Traditional learning is more expensive than the e-learning	Learners will not have to pay beyond their ability. It is affordable.
Technical skills	Just attend the class and concentrate.	It might need to require some basic knowledge about the technologies.
Location of Learning	It focuses on classroom education	It focuses on virtual education

The COVID 19 pandemic has triggered new way of learning .Both e-learning and traditional learning each have their perks and their pros and cons. Both methods of education learning exhibit distinct features, especially with regards to flexibility, interaction, communication, learning mode and skills development .In traditional education learners and instructors both have shared responsibility whereas e learning imply that learner assume full responsibility of learning process.

In this pandemic duration, educational institutes have been closed and the government has been encouraging e-learning education to achieve academic continuity. Now, these institutes provide e-education smoothly by using online platforms such as Zoom, Google Classrooms, Google Meet, Microsoft teams etc.E-Learning facilitates and emerged as a new way of enhancing the e-learning process .This study presented that focuses on learner's perception towards e learning, independently study etc. most popular factors among learners .

So in this ever growing digital age, learners are steadily moving towards online digital education in almost every field. The opportunity to customize learning sequences for each learner will make education more productive by closing learning gaps. It is commendable that millions of courses by the best educators are also available for free to anyone with an internet connection, now all these possibilities are endless.

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