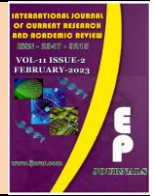




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## A Study on Factor Influencing and Effectiveness of Online Digital Portal Learning among Students

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### Abstract

Nowadays, everyone is obsessed with technology like the Internet, mobile phones, etc., These are very affordable and simple to access. There has been an increase in online digital portal learning. When compared to the more conventional method of education, electronic learning is also more efficient. E-learning is more effective because it lacks the essentials, which affects the learning process in traditional education. E-learning through online portals provides a variety of information related to concepts that students want to study, and virtual classes and online assignments increase students' interest in learning. SWAYAM, E-Pathshala, E-Basta, sugamyapustakalaya, SWAYAM Prabha, a national digital library of India, and the Nakshe portal of the survey of India were all created by the government of India through the Ministry of Human Resource Development (MHRD). Students can learn about new concepts from various classes thanks to these portals. In this study, 100 samples were collected from students from various colleges in Madurai city to investigate the preference of students in Madurai city for online digital portal learning. The objective of the study is to examine the factor influencing and effectiveness of the usage of online digital portal learning and the respondents' demographic details. A hypothesis has been formulated to investigate the association between factors that influence online digital portals and demographic information. And the statistical inferences are derived using SPSS software.

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### Keywords

SPSS software, online digital portal, Madurai, demographic details.

### Introduction

The use of the internet has increased at a lower cost as a result of technological advancement. The primary arena in which the internet plays a significant role is education. E-learning is a method of education that uses electronic resources in addition to structured instruction.

Though educating is in many cases based generally in or out of the school rooms, the work of PCs and in this way the net structures the chief piece of E-learning.

"Students' performance and engagement are both improving as a result of e-learning platforms. According to Pearson India Managing Director Vikas Singh, "it is reducing gaps in the delivery of education and giving a new dimension to the education space."1 Several steps are being taken to push e-education throughout the nation.

The Ministry of Human Resource Development (MHRD) is in charge of the key e-Learning initiatives, which are as follows:

## **Curriculum for the varsity system with ICT in it**

At the national level, ICT in Education curricula for college students, academics, and teacher educators are being developed and implemented nationwide. 805 MRPs/KRPs of 36 States/UTs focused on ICT information for academics and students and their admission into each state. There are printed cyber safety and security tips for teachers, students, and colleges.

### **E-Pathshala**

NCERT (National Council for Academic Analysis and Training) created e-Pathshala to showcase and distribute all academic e-resources, including textbooks, audio, video, periodicals, and a variety of print and non-print materials. So far, the portal and mobile app have produced 3444 audios and videos, 698 e-books (e-pubs), and 504 flip books.

### **Portal shogun**

ShaGun, derived from the words "Shala" and "Gunvatta," is a public-domain online portal with two components, one of which is a repository for state- and UT-specific best practices, images, videos, studies, and newspaper articles related to faculty education. In addition to providing a platform for all stakeholders to learn from one another, it aims to showcase success stories. Additionally, this fosters a spirit of positive competition among all States and UTs.

National Repository of Open Academic Resources (NROER) – The National Repository of Open Academic Resources (NROER) is a project that aims to gather all digital and downloadable resources from all levels of college and teacher education. The portal has produced 13635 files, 401 collections, 2722 documents, 565 interactives, 1664 audios, 2581 photos, and 6105 videos thus far. State/UTs are expected to build OERs and contribute resources to NROER for their own state/UT.

### **SWAYAM**

The integrated platform for online courses known as "Study Webs of Active Learning for Young Aspiring Minds" (SWAYAM) makes use of data and Information and Communication Technology (ICT) and covers elementary through graduate levels. SWAYAM uses data and communication technology (ICT) to provide a single integrated platform and portal for online courses that cover all subject areas and skill-related courses. This

ensures that every student in the country has access to the highest quality instruction at a reasonable cost. Additionally, it provides online courses for educators, academics, and teachers. It will be accessible via [swayam.gov.in](http://swayam.gov.in). In addition, courses on massive open online courses (MOOCs) are being offered on the portal by the National Institute of Open Schooling (NIOS), which is promoting education through e-learning strategies. On the SWAYAM platform, forty-four NIOS courses are available, including fourteen at the secondary level, sixteen at the senior secondary level, four line courses, and ten teaching certification courses (D.El. Ed.).

### **PRABHA SWAYAM**

Thirty-two National Channels, or SWAYAM PRABHA DTH-TV, have been used to launch a program that makes use of satellite communication technologies to distribute educational e-content. The national organizer for one DTH channel, Kishore March (31), is CIET-NCERT, which has begun providing a 24/7 academic channel since then. 09.07.2018.

In order to provide stakeholders with convenient learning opportunities, a daily, four-hour contemporary slot is broadcast five times per 24-hour period. In addition, NIOS operates five channels for academics, signing, and the secondary and senior secondary levels.

### **The National Digital Library (NDL)**

A project known as the National Digital Library of India (NDL) has the potential to create a framework for a virtual repository of educational resources with a single search window. Through the NDL, there are quite a few 153 large numbers of digital books available for purchase. It will be accessible on [ndl.gov.in](http://ndl.gov.in). 2 private online learning portals, which also offer a variety of free courses to users:

Academy of Khan: Salman Khan, a professional, established the non-profit educational organization known as Khan Academy with the intention of providing free elementary education to anyone, anywhere. It uses YouTube videos to produce short lectures. All of the resources are available for free to anyone in the world, and the videos have been translated into 36 languages with English as the primary language.

Interactive Systems by Tata: Goodbye Intuitive (TIS) has a quarter century of mastery in custom learning

arrangements and is one of the preeminent implied pioneers yet inside a similar field. It is one of the most successful online education companies in the Republic of India, producing all online education in one location. It has been ranked among the top twenty coaching outsourcing companies worldwide for the past seven years and has a team of over 350 multidisciplinary specialists.

School W3: Overtaking Refines information, a Norwegian software development and consulting firm, W3faculties is one of the most popular online learning technology websites. In the field of internet programming, structured tutorials and playgrounds provide an authentic learning experience. It's a completely free resource for developers.

Teacher.com: Tutor.com may be an entirely online tutoring service that provides professional and college students with matched learning solutions. They have conducted over thirty subjects and completed eleven million matched sessions.

They have been honored with numerous accolades, including the People's Choice Gold Award, Microsoft Gold Certified Partner, Deloitte Technology Fast 50 Program for the New York City Region, Twenty-five Best Small Businesses for Women by Operating Mother, and others.

WizIQ: Based by Harman Singh, WizIQ is one of the most important cloud-based education platforms in the world. Its North American offices: town, Toronto, and Apex; India: Hyderabad, Mohali, and Gurgaon, as well as more than four hundred thousand educators and more than four million students from more than 200 countries.

## **Review of Literature**

In implementing e-learning, Anderson (2002); Clark and Mayer (2003); warn managers to take care within the method of adopting e-learning for his or her organizations. There square measure 3 classes of e-learning implementation being evaluated, that square measure quality, ease-of-use and self-efficiency.

Borotis and Poulymenakou (2004) explicit that e-learning readiness are often outlined a company UN agency intends to adopt e-learning as “the mental or physical readiness of a company for a few e-learning expertise or action”. As additional and additional organizations plan to be a part of and expand e-learning

interventions, it becomes additional vital to assess their readiness to utilize technology so as to implement with success.

Holmes, B. and Gardner (2006) conducted study how dealings of scientific conferences can be used for education in the field of e-learning. They described the abstracts of 427 scientific articles of leading German-speaking e-learning conferences. The study was carried out at German-speaking conferences and, thus, reflects the situation in Germany, 67 Switzerland and Austria. This study pointed out an important contribution to the diffusion of digital media in higher education. The researchers discovered that the detailed analysis of the frequency distribution over the seven years reflects the intensity of scientific discussion towards e-learning latest trends in institutions, and conclusions about digital potentials of innovations can be introduced. Especially, they identified the development potential of learning management, mobile learning, virtual worlds, e-portfolio, social media. Massive Open Online Courses are crucial for e-learning in educational institutions at Germany.

Yao-Ting Sung *et al.*, (2015) performed a meta-analysis and research synthesis of the effects of integrated mobile devices in teaching and learning, in which 110 experimental and quasi experimental journal articles published during the period 1993–2013 were coded and analysed. Overall, there was a moderate mean effect size of 0.523 for the application of mobile devices to education. The effect sizes of moderator variables were analysed while the advantages and disadvantages of m-Learning in different levels of moderator variables were synthesized based on content analyses of individual studies. The results of the study and their implications for both research and practice are discussed.

Anderson (2002). Is e-learning right for your organization? Learning Circuits: ASTD's Online

Magazine All About E-Learning, Retrieved July 25, 2005, from,

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## **Objective of the Study**

To analyze the socio-economic profile of the respondents

To identify the factors influencing online learning

To understand the effectiveness of online digital portals for learning

**Materials and Methods**

**Hypothesis**

Ho: There is no significant association between the demographic profile of the respondents and the factors influencing the usage of online digital portal learning.

Ho: There is no significant relationship between the demographic profile of the respondents and the effectiveness of online digital portal learning among respondents.

**Data Analysis**

Demographic profile of the respondents analyzed as given below

From the above table, it is inferred that the majority of the sample respondents belong to the age group of 21-24, the majority of the sample respondents studying in affiliated colleges. The majority of the respondents are students, usage level among the respondents is higher.

Table 1.4 denotes that 55% of the respondents use online digital portals because it is reliable and provides effective learning materials.

Table 1.5 denotes that there is a significant relationship between demographic profile of the sample respondents and the factors influencing usage of online digital portals. Null hypothesis rejected and alternate hypothesis is accepted, hence the significance level is less than 0.05.it is concluded that age, college in which the respondents studying, educational level, and level of usage has an influence over the factor which influencing usage of online digital portals for education.

TABLE1.7 shows that highest score is obtained by “online portal allowed me to use more source of information” score is 553 followed by the variable “online portals helped me in studies” second score is 550 it indicates that online portals help for studies of the user and also provides more information from various sources. Least score is obtained by the variable “I feel comfortable while using online portals” scored value is 475 indicates that searching information in online portal is not comfortable for the user.

H0: There is no significance relationship between educational factor and effectiveness on online portal

H1: There is a significance relationship between educational factor and effectiveness on online portal

Table 1.8 we can infer that that the calculated value of F the respondents with different effectiveness of online portal like saves time, help to perform in a class well, accessibility of more information from various sources etc. Significance value of the table is more than the significance level 0.05 so null hypothesis accepted no mean difference between educational qualification and the effectiveness of online portal.

**Findings**

Male and female equally has a necessary to use online digital portals for learning

Majority of the respondents are in the educational qualification of under and post graduates.

Reliability is a major factor which attracts students towards online learning

Visualization of contents attracts the students more

**Table.1**

Types of research	Exploratory research
Sample Size	100 and equal questionnaires were distributed among male and female students in the selected colleges in Madurai city
Data collection	Questionnaire
Primary and secondary data	Primary data was collected through a questionnaire and secondary data was procured from a research paper published.
Research Design	Simple Random Sampling

**Table.2** Demographic profile of the respondents

Personal data		No. of Respondents	Percentage
Age	18-21	35	35%
	21-24	39	39%
	24-27	25	25%
	Above 27	1	1%
College	Affiliated to university	91	91%
	Autonomous	9	9%
Educational status	Undergraduate	42	42%
	Postgraduate	33	33%
	Diploma/Ph.D./PG Diploma	25	25%
Level of using online digital portals for education	High	50	50%
	Medium	26	26%
	Low	24	24%

**Table.3** Factors influencing for using online digital portals for learning

S. No	Factors Influencing	No.of. Respondents	Percentage
1	Easy accessibility	13	13%
2	Cost effective	14	14%
3	Reliable and effective learning through digital	46	46%
4	24X7 learning experience	27	27%
	Total	100	100

**Table.4** ANOVA: - Comparative analysis on age and the reason for using online digital portals.

		F	Sig.	Statistical inference	Result
Age	Between Groups	10.072a	0.018	P value < 0.05	Significant
	Within Groups				
	Total				
College	Between Groups	23.407 a	0.000	P value < 0.05	Significant
	Within Groups				
	Total				
Educational	Between Groups	68.120 a	0.000	P value < 0.05	Significant
	Within Groups				
	Total				
Level	Between Groups	25.804 a	0.000	P value < 0.05	Significant
	Within Groups				
	Total				

**Table.5** Effectiveness of using online digital learning portal

Statement	SA	A	N	D	SD	Total score	Rank
online portals helped me in studies	80	30	10	0	0	550	II
online line portals saved my time	35	44	41	0	0	474	IV
I was recognized as a outstanding student because of online portal learning	52	52	15	0	1	514	III
online portal allowed me to use more source of information	78	37	5	0	0	553	I
I feel comfortable while using online portals	35	45	40	0	0	475	V
<b>Total</b>						<b>2566</b>	

**Table.6** Educational qualification and effectiveness of online portal

Statement		Sum of square	df	Mean square	F	sig
online portals helped me in studies	Between groups	1.467	2	.733	.504	.606
	Within groups	170.400	117	1.456		
<b>Total</b>		171.867	119			
online line portals saved my time	Between groups	2.921	2	1.461	1.011	.367
	Within groups	168.946	117	1.44		
<b>Total</b>		171.867	119			
I was recognized as a outstanding student because of online portal learning	Between groups	2.568	3	.856	.587	.625
	Within groups	169.299	116	1.459		
<b>Total</b>		171.867	119			
online portal allowed me to use more source of information	Between groups	5.463	2	2.732	1.921	.151
	Within groups	166.404	117	1.422		
<b>Total</b>		171.867	119			
I feel comfortable while using online portals	Between groups	3.270	2	1.635	1.135	.325
	Within groups	168.597	117	1.441		
<b>Total</b>		171.867	119			

Majority of the respondent accepts that online portal helps for studies, saves time, online portal helps to gather more information from various sources. Online portal increases the performance of the students, provides comfortable source of learning.

Online Digital learning promotes the training capability of the scholars it attracts creates interest towards younger generation. It bridges the gap between ancient learning method and modern. Fulfils each would like of the scholar. model, structured content, colloquial and example made tutorial material, longer videos, strong guidance, asynchronous activities, a week’s point in time for assignments/activities and quizzes, well defined MCQ’s, sturdy student support to stop dropouts and well tested and bug free technology square measure the factors which will make sure the success of any on-line digital learning.

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