"Students' Perception Towards Digital Learning : A Study On Digitalization in Education Sector in Mysuru City"

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Abstract

Digital learning is method of learning based on the use of new digital tools to enable learners to learn in a different way, whether it may be face-to-face, distance learning or blended learning. It emphasizes high quality learning experience and self-learning opportunity at student's own pace. Therefore, this research had been conducted to understand students' perception towards digital learning implementation and its suitability in Mysuru city colleges.48 students from different colleges of Mysuru participated in this study. Sampling technique used in this study was simple random sampling using questionnaire as an instrument and the statistical tool used for the study was Percentage analysis. The findings showed that the level of students' perceptions of the use of digital learning was high and from the analysis carried out revealed the level of appropriateness of the use of digital learning in Mysuru city colleges was also high. The findings of this research could be a useful guide to the institutions in Mysuru city in setting up and planning for the strategy to improve the level of professionalism and availability of good infrastructure, so as to fully implement the digital learning practice.

INTRODUCTION

We live in the age of internet and also it has become an important part of our life that we cannot live without it. Besides, the internet is an invention of high-end Science and modern technology. We are connected to internet 24/7. Because of the internet, our lives have become more convenient as compared to the time when we don't had internet. Earlier we had to stand in queues to send mail for withdrawing and depositing money to book tickets. But after the dawn of the internet all these things became quick easy. We do not have to waste our time standing in queues. Also the internet has contributed a lot to the environment, Such as the offices (Government and private), schools and colleges have become digital and paperless. Learning in a digital environment creates more opportunity to students as the technology advances, it is increasingly important that young people are prepared to take part in a workforce in which computers play and ever increasing role and make decisions about how to use Technology for acquiring new knowledge and skills. Job of the future will increasingly require people to interact with computational models and simulated realities and to solve problems using digital tools. As there is a Rapid change in technology, students today must develop a set of broad skills and perspective that supports lifelong learning and to understand about the unfamiliar digital environment.

I. LITERATURE REVIEW

1) **Daud et al., (2015)** examined the students perception towards digital learning implementation and its suitability in Malaysian community colleges, it emphasizes a high-quality teaching experience and provides access to technology ,contents ,feedback through formative assessment and self-learning opportunity at students on pace .primary data was used to

conduct research The minimum size of the population was 81, The minimum sample size required was 70 and students who responded to the sample size where 81, the result shows that 98.8% of respondents have smartphone75.3% of respondents uses tablet and laptop 96.3% uses internet as primary reference and 77.8% respondents know about digital learning. Ultimately,the study revealed that the most students showed a high level of interest in using digital learning and student agreed that the digital learning practice can affect self-motivation to improve the quality of learning .The community college students in Malaysia do favor the usage of digital learning and they are positive about its effectiveness of teaching and learning process

2) **Akuratiya and Meddage (2020)**, aimed to examine students' perception of online learning during pandemic period at ATI in Dehiwala, SriLanka. This study emphasizes that, with the sudden change in an environment with new coronavirus, Online learning has become the solution for the education sector all over the world. The main purpose of this study is to understand students' opinion on learning online during pandemic. Primary data was used to conduct survey. 130 students of Dehiwala, Srilanka, participated in the survey out of which 62.5% had little or no experience with online learning prior to corona virus outbreak. 54.7% preferred blended learning of both traditional learning and online learning. It is said that the most popular device used to connect online is smartphones. the study reveals the challenges to online learning during covid-19 which includes issues relating to reduced interaction between the Lecturer and student, social isolation and technical problems. Irrespective of these challenges, students perceive online learning as effective as face to face learning enjoyable and ease access to online materials. Eventually the study reveals that 82.9% students agreed to integrate online learning into their course in the future and overall perception regarding online learning during covid-19 is 79.7 % the survey displays a favorable perception of online learning IIT students

3) **Srivastava and Dey (2018)** stated that the Digital Technology has brought significant changes in the progression of society.It is emphasized that the Paradigm shift in education require the modern teacher to play a role of digital networker to bring creativity within student as change enabler by using smart tools. The main purpose of this study is to understand the role of digital technology in teaching and learning process. the study highlights the issues and challenges related to digital use of teaching and learning which can be driving force in overcoming the obstacles and becoming successful Technology users.To analyze the teachers' perception a quantitative Research Design has been used to collect the data from the teachers from the state of Jharkhand.This questionnaire is has been administered on male and female teacher. 130 questionnaires were distributed to the teacher randomly. As some questionnaires had missing information, 100 questionnaires have been used by researcher for data analysis. The data collected was gathered and analyzed using statistical packages for the Social Sciences (SPSS) version21. The results showed

that the use of digital Technology tools in teaching and learning in the classroom of male is higher than the use of digital technology tools using in teacher and learning in the classroom of female teacher. The data provides sufficient evidence to conclude that the use of digital technology in teaching and learning in the classroom by male are higher than the female.

4) **Bordoloi(2018)** examined that the higher education should bring up the development of human resources by promoting knowledge-enabled population that will bring socio economic mobility, peace and progress in the society. He stated that the education provider must undertake the duty to impart need-based higher education that makes people educated with progressive, rational, analytical and skillful mind. Descriptive research methodology has been used and analyses has been done based on the data extracted from the secondary sources of information such as Census of India 2011, India human development report 2011, India human development report 2014 2015, Economic survey 2015 2016, Annual report of NSS 2016. Ultimately the study revealed that ODL can be raised as an alternative way for making education accessible and for providing scope for skill-based education at the minimum cost.

5) **Ansari and Tripathi (2017)**, emphasized on the effectiveness of mobile learning app in higher education in India.The study evaluates the role of mobile learning apps in student's life. Primary data was used to conduct research. A structured questionnaire was prepared and distributed online among people. 76.86% of respondents were male and 42.14 % of respondents were female. The study reveals that 77.1 5% of the participants owned mobile phone, 65.7 2% of them had smartphone, 11.43% had normal mobile phone, 18.57% of respondents have tablet s and 4.28 % of respondents had e books. Ultimately the results showed the opinions of different level of students from different universities from different part of India. The result indicated that the mobile learning app can be very useful in the higher education environment furthermore the results showed that the students adequate knowledge and Awareness to use mobile technology and the internet in their educational environment.It is also demonstrated that students were quite aware of the mobile technology and internet which could be useful in their learning environment. The survey displays favorable perception of students about mobile learning apps.

II. SIGNIFICANCE OF DIGITAL LEARNING
1) Digital learning is helpful for countries which consists of large amount of youths
2) It provides more utilization of information technology
3) The impact of digital-learning in education system of India is positive
4) With the increase in the use of internet day-by-day, the scope of digital learning is wide
5) There are growth prospects of digital learning in India with some limitations.

III. OBJECTIVES OF THE STUDY

The study emphasizes the following objectives
1) To compare between traditional learning and digital learning
2) To study the various digital learning portals
3) To understand about the growth prospects and future of digital learning
4) To analyze the students' perception towards digital learning

IV. Research Methodology

The study was conducted using primary and secondary data

Primary source: A structured questionnaire was prepared and distributed online among people. Sample size is 48 and sampling technique is Simple Random Sampling. The statistical tool used for the study is Percentage Analysis. Area of the study is Mysuru City.

Secondary sources: The information was collected through various journals, Articles, newspapers, books and magazines

V. TO COMPARE BETWEEN TRADITIONAL LEARNING AND DIGITAL LEARNING

Education has become one of the most important necessities of human and everyone wants their children to become professionals and successful in their respective fields. With the passing time education and its learning methods have tremendously changed from Studying under a tree to getting into schools and colleges and now getting all the advices at home, learning has updated rapidly.When it comes to answering the question which is better digital learning or traditional learning it comes the benefits that individuals find most relevant to them digital learning benefits tend to Veer towards lower cost and wider access to a variety of courses on the other hand traditional learning of a learning and socialization experiences that cannot be matched online traditional method of learning is often favored by children and young students looking to secure their required 15 to 16 years of education

On the other hand digital learning is heavily frequented by students and professionals looking to up skill and increase their number of certification the digital learning has long been the foundation of education systems around the world and digital learning can be seen as supplements to boost career and job opportunities. The bottom line is that both traditional learning and digital learning have their work the ultimate result depends upon the students' difference time and learning style

VI. DIGITAL LEARNING PORTALS

Digital learning is an electronic education system which uses the information and technology. Itis a combination of learning service and technology. Digital Learning applications have a benefit of flexible place, time and medium of use. With the help of digital learning portals, we need not to have access to school, spend lot of time and money; all we need is a good internet connection and computer system, mobile or laptop.There are numerous E-Learning portals around the globe. Some of the famous Digital-Learning Portals in India are:

a. Indiaeducation.net
b. Khan Academy

c.   Coursera
d.   EDX
e.   Byju's
f.   W3 School
g.   Academic Earth
h.   Code Academy
i.   Open Yale courses
j.   Investoo

a. **Indiaeducation.net**

Indiaeducation.net is the famous virtual network which has 45 educational portals covering more than 450 domains and it is one of the biggest and largest networks with portals from 28 states, 6 union territories and 4 metros in India. Indiaeducation.net portal is basically designed to provide education at all levels and someof the area of operation are school education, higher education and distance education. **Subjects offered**: Management, Engineering, Law, Medical, Education, Science, Commerce, Finance, Animation and Mass communication

b. **Khan Academy**

Khan Academy was formed as a non-profit organization, it is providing world class education to everyone on various subjects and its lectures are produced in short videos in English and can be translated into 36 different languages. The main intention of Khan Academy was to provide specialized contents hence they merged with NASA, The Museumof Modern Art, MIT, and The California Academy of Science. Started from one man tutorial, at present there are 150 people organization.

Subjects offered: Math's, Science, Engineering, Computing, Arts, Humanities, Economics and Finance

c. **Coursera**

Coursera is the digital portal where, every course is taught by experts from world class universities and companies so as to provide something new anytime and anywhere and Hundreds of free lectures and videos are provided in this portal. It is having 207 partners across 52 countries which provides 4116 courses and It has joined with 190+ leading universities and companies which includes Google, Duke, IBM, Stanford University, Imperial College London.

Subjects offered: Arts, Science, Entrepreneurship, Accountancy, Business, Information Technology and Computer Science

d. **EDX**

EDX Founded by Harvard and MIT, EDX is a home for more than 20 million learners, learning from top colleges, universities and companies. EDX provides high quality education by minimizing barriers like cost, location and access. It consists of more than 120 institutions as a partner. It offers more than 2400 courses to various participants across the globe. Some of the members of EDX are Harvard University, Boston University, Australian National University, The University of Queensland are some of the members of EDX.

Subject offered: Architecture, Arts and Culture, Computer Science, Electronics, Ethics, Food and Nutrition, Health and Safety

e. **BYJU'S**

BYJUS was founded in year 2011 as Think and Learn Pvt Ltd. In the stage, the main focus is on development of strong team of experts across media, contents

and technology to develop world class learning contents. In year 2015, BYJU's launched an application for grade 6 to 12 students. In the year 2016, it became 1st Asian company to receive investment from Chan-Zuckerberg Initiative (CZI).
Subject offered: CBSE, ICSE, NEET, JEE, CAT, Commerce, Bank, NCERT

VII. ANALYSIS OF DATA
The study is taken to understand students' perception towards digital learning

A. DEMOGRAPHIC PROFILE
The demographic profile of the respondents is as follows,

Table No 1

Age	No of Respondents	In percentage (%)
17-19	2	4.2%
20-22	36	75%
23-25	10	20.8%
25 & above	-	-
Total	48	100%
Gender	**No of Respondents**	**In percentage (%)**
Female	33	68.8%
Male	15	31.3%
Total	48	100%
Education status	**No of Respondents**	**In percentage (%)**
Under graduate	17	34.4%
Post graduate	31	64.6%
Total	48	100%
Affiliated to University of Mysore	**No of Respondents**	**In percentage (%)**
Yes	45	93.8%
No	3	6.3%
Total	48	100%

(Source: Primary Data)

Interpretation: From the above table no. 1 it is revealed that 75% of the respondents were of the age group 20-22, 69% of respondents were female and 31% of respondents were Male, 65% of respondents were post graduate students and 34% of respondents were Undergraduate students and 94% of students studied in the colleges which is affiliated to University of Mysore.

B. BENEFITS OF DIGITAL LEARNING

Opinions of respondents about the benefits of digital learning is as follows,

Table No 2

Sl no	Questions	strongly agree	Agree	neutral	Disagree	Strongly disagree
1	Online discussion provides useful social interaction	22.4%	**49%**	18.4%	10.2%	-

2	Improves communication skills	18.4%	**51%**	16.3%	14.3%	-
3	A great chance to share opinions with teachers	16.3%	**36.7%**	30.6%	16.3%	-
4	Digital learning is cost effective	18.4%	**51%**	20.4%	10.2%	-
5	I would recommend online courses	18.4%	26.5%	**32.7%**	20.4%	2%
6	Digital learning is useful as course are readily available	16.3%	**44.9%**	28.6%	10.2%	-
7	Online courses provide better opportunity to use technology	40.8%	**49%**	6.1%	4.1%	-
8	Quality of learning can be increased through online learning	14.3%	**44.9%**	24.5%	16.3%	-
9	Online courses offer more flexibility	14.3%	**49%**	20.4%	16.3%	-
10	I can easily access, understand , and operate online learning applications	18.4%	**44.9%**	28.6%	6.1%	2%

(Source: Primary Data)

Interpretation: From the above table no. 2 it was observed that 49% of respondents agreed that online discussion provides useful social interaction, 51% of respondents agreed that the digital learning improves communication skills, 37% of respondents agreed that digital learning is a great chance to share opinions with teachers, 51% of respondents agreed that digital learning is cost effective, 33% of respondents stated that they would recommend online classes, 45% of respondents agreed that Digital learning is useful as course are readily available, 49% of respondents agreed that online courses provide better opportunity to use technology, 45% of respondents agreed that the quality of learning can be increased through online learning, 49% of respondents agreed that online courses offer more flexibility, 45% of respondents agreed that they can easily access, understand , and operate online learning applications.

C. CHALLENGES OF DIGITAL LEARNING

Opinions of respondents about the challenges of digital learning is as follows,

Table No 3

Sl no	Questions	Strongly disagree	disagree	Neutral	agree	Strongly agree
1	Delay in timing of lectures	8.2%	**36.7%**	26.5%	26.5%	2%
2	Lack of information	20.4%	20.4%	24.5%	**30.6%**	4.1%
3	Interruptions in online classes	4.1%	20.4%	30.6%	**38.8%**	6.1%
4	Disturbance in voice or presentation	12.2%	12.2%	18.4%	**38.8%**	18.4%
5	Online discussion decreases learning quality	10.2%	18.4%	26.5%	**30.6%**	14.3%

(Source: Primary Data)

Interpretation: From the above table no. 3 it is revealed that 37% of respondents disagreed about the delay in timing of lectures, 31% of respondents agreed that there is lack of information in online classes, 39% of respondents agreed that there is interruption in online classes, 39% of respondents agreed that there is disturbance in voice or presentation, 31% of respondents opinioned that online discussion decreases learning quality.

VIII.   GROWTH PROSPECTS AND FUTURE OF DIGITAL LEARNING

We are going through an incredible phase of development of technology and it is impacting every sector not only business but, it has impact in education sector as well. Previously we were dependent on traditional method of teaching that involved teaching addressing a group of students in a classroom but now we are moving towards digital technology to make things easily understandable. There are several digital learning platforms which came up from past 3 years to make learning easier, convenient and simpler.SeveralInstitutes have transitioned to digital learning and are planning on continuing it even after the pandemic situation. Now the people have realized the benefits of online education, they will most likely continue with it in some way or in future as well.

In the Union Budget 2022, Finance Minister Nirmala Sitharaman announced the formation of Digital University to provide access to world-class education to Indian students and By analyzing these we can come to conclusion that the digital world is growing day by day and as the world is moving towards high technology and everything is becoming online, digital learning will be more effective and most useful source for an individual in future.

IX.   Findings of the study

From the above information available, it is clear that

- Both digital learning and traditional learning have their perks, the bottom line is that that both traditional learning and digital learning have their work the ultimate result depends upon the students' difference time and learning style
- Digital learning portals make learning easy for students by introducing more number of courses and also by providing high quality education.

- As technology is moving towards digitalization, digital learning will be more effective and most useful source for an individual in future.

- It is found that 73% of the students have responded positively about digital learning and they are willing to continue their education through digital learning platforms in future, remaining 27% of respondents were not satisfied with digital learning.

X. Conclusion

The finding of the study revealed that the most of students showed a high level of interest in using digital learning. The students agreed that digital learning is cost effective and it offers more flexibility. It also shows that the online courses provide better opportunity to use technology. Besides, there are some challenges of digital learning like delay in timing of lectures, Interruptions in online classes, Disturbance in voice or presentation. Institutions can overcome these challenges by providing informative classes, by making sure that there is no delay in time of lectures, Interruptions in online classes, Disturbance in voice or presentationand also by increasing the learning quality in online classes. Therefore students must always be prepared and explore the new technology to enhance their learning experience. Through this study it can be concluded that Mysuru city students do favor the usage of online learning and students are positive about the effectiveness of digital learning in teaching and learning process

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