AN ANALYTICAL STUDY OF MODERN TECHNOLOGY AND ITS IMPACT ON TEACHING LEARNING PROCESS

Jinal Mehta

Assistant Professor, Shree LR Tiwari Degree College, Thane, Maharshtra

ABSTRACT

The researcher though this abstract and his piece of research writing intends to create an alarming buzz to curtail the, how modern technology impact on teaching learning process. The Present study focused how 21st century emerge procurement and advances working with teaching and learning process. The present study also discovers Data Technology can help the educators, students, specialists, heads, and instructive organizers to get access significant fortune of information, expertise what's more application for working on their own assignments. The respondents are mostly the learners studying at graduation level along with the teaching faculty members. The researcher has collected the primary data through the Google form questionnaire from 97 respondents which have given a detailed understanding of the title under research study. Three objectives framed were measurable and achievable through interpretations of research conclusions and findings.

Key Words: Information technology, computer, Internet, Teaching learning process, communication.

INTRODUCTION

"Technology will not replace great teachers but technology in hands of great teachers can be transformation"- **by Author George couros.**

The above quote explains that the role of a teacher is not merely confined to imparting knowledge. it goes far beyond that. a good teacher inculcates values to the students, and also becomes an inspirational role model for kids.

Today new modern technology had significant effect on life of people living in every corner of globe. Regarded as the foundation upon which economy, arts and sciences flourish in the 21st century, modern technology sustains civilization all around the world. This new age of technology has also facilitated the rise of global communities and the easy exchange of ideas and resources.

From automation of several manual task, modern technology has grown by leaps and bounds in the last few years.it also penetrated each face of our everyday lives including education. This growing dependency on modern technology within education sector has resulted in round clock connectivity with students and availability of various forums for learning assistance.

The redesign curriculum concentrating on base standards of knowledge, skills and ethical implications in AI or data science enable students to develop problem- solving and decision making competences in these areas of technological disciplines. Implementation of educational technology reflects its impact in performance of students as well as teachers. In higher education, there is no specific psychological technique to facilitate the students in higher education. It is the matter of creating interest among the students for learning. Students might be able to get a link or access to their educational needs worldwide. Educational technology enables the student to get themselves over worldwide. students can get information and resolve with form of information like video, text, book, research review in form.

REVIEW OF LITERATURE

Yadav Bhavna sangeet May (2009) present how technology change the way in future and changed we live. The researcher find several manual task can be automated and many complex and critical processes can be carried out with ease and greater efficiency with the help of modern technology this paper consist 4 objectives and used six important concept to clearly understand the technological concept. The finding of the study shows that technology has positive impact on education and same also have negative effects. Teachers and students should take advantages of his good light and eliminate the drawbacks which are pulling back many students as well as schools from achieving excellence. ,

Marshal (2002) cited in Honey, Culp and Spiel Vogel (2005), found strong evidence that modern technology complements what a great teacher does naturally, extending their reach and broadening their students' experiences beyond the classroom.

Honey et al (2005) go further to say young people are taking advantage of the new powerful technology. Three quarters of online teens use instant messaging, representing close to 16 million youth. Of these 16 million, 78% say they use instant messaging to talk about homework, tests or schoolwork.

Subramanian et al (2000) posits that cognitive researchers suggest that for example, playing computer games can be an important building block in enhancing children's ability to read and visualize images. Playing specific computer and video games have been found to have immediate positive effects on specific cognitive skills. They may improve problem solving skills.

GAP ANALYSIS

The purview of the study has shown that positive and negative effect of technology on education, importance of technology in problem solving skills. From literature review above many studies have been conducted on impact of technology in education however but there are little research conducted on "MODERN TECHNOLOGY AND ITS IMPACT ON TEACHING LEARNING PROCESS".in present study researcher found to fill gap knowledge with following points like, understanding the quality of education and enhanced learning process, which factors responsible for affecting in teaching in education,

RESEARCH METHODOLOGY

Objective of the study:

1. To study the impact of modern technology on classroom teaching

2. To study factors affecting teaching in education.

3. To understand the quality of Education and enhance learning process

Hypothesis of the Study:

1. **Alternative Hypothesis (H1)** – There is relationship between modern technology and enhance teaching learning process.
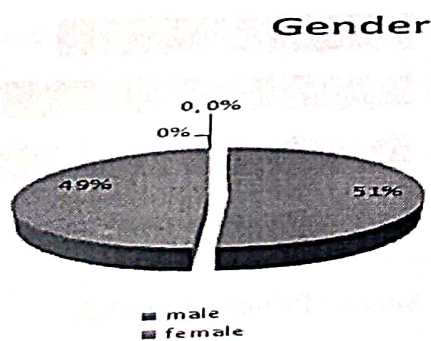
Null Hypothesis (H0) – There is no relationship between modern technology and enhance teaching learning process.

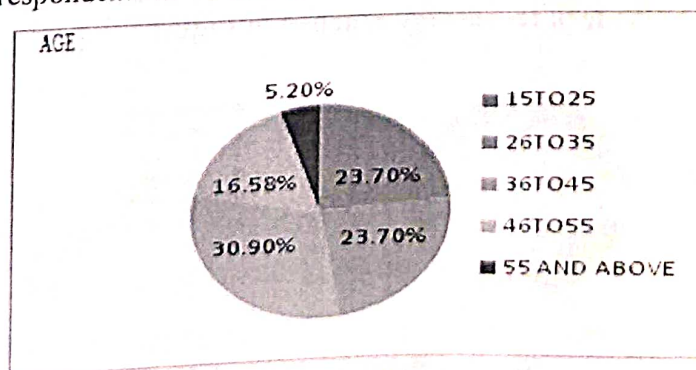## DATA ANALYSIS AND INTERPRETATION:

The Researcher has collected the primary data by circulating the Google form in known group of social media for collection of the data.

The Demographic profile of respondents is as follows

A) DEMOGRAPHIC PROFILE OF RESPONDENTS :
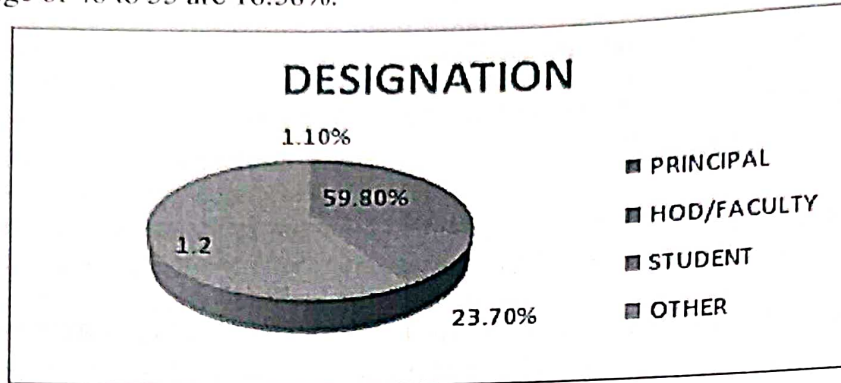

Gender

0. 0%
0%
49%
51%

- male
- female

GENDER: Among all the respondents there was 49 % was females and 51% of males

AGE

5.20%
16.58%
23.70%
30.90%
23.70%

- 15 TO 25
- 26 TO 35
- 36 TO 45
- 46 TO 55
- 55 AND ABOVE

AGE: The majority of respondents are between the ages of 15 to 25 that is 23.70 The 23.70% of respondents were between 26 to 35. The 30.90% were age of 36 to 45 .The respondents above age of 55 were 5.20%and respondents between age of 46 to 55 are 16.58%.

DESIGNATION

- 1.10%
- 59.80%
- 1.2
- 23.70%

- ■ PRINCIPAL
- ■ HOD/FACULTY
- ■ STUDENT
- ■ OTHER

DESIGNATION: In case of designation 59.80% were Faculty/ Lecturer/ Teacher, 23.70%were student ,1.1% principal and 1.2%respondents were other designation.

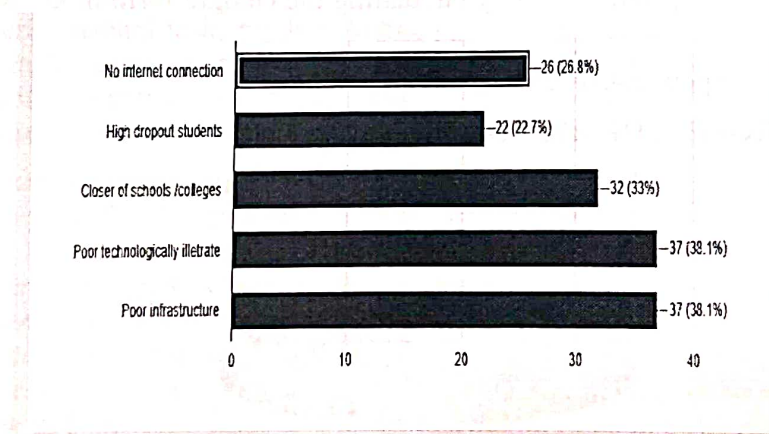B)The following questions asked to respondents.

1. **Part of modern day teaching learning process**

BASIS	NO.OF RESPONDENTS	PERCENTAGE
YES	50	50 %
NO	46	45.5%

Source: primary data (1.1)

Interpretation: The table explains weather respondents are part of technology. Primary study conducted through questionnaire method 50 respondents say yes they are part of modern day teaching learning process and 45.5% respondents are not part of teaching learning Process.
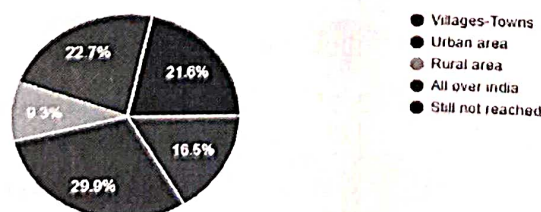
2. **What according to you are current challenges in education sectors ?**

- No internet connection —26 (26.8%)
- High dropout students —22 (22.7%)
- Closer of schools /colleges —32 (33%)
- Poor technologically illetrate —37 (38.1%)
- Poor infrastructure —37 (38.1%)

Source: Primary Data(1.2)

Interpretation: The above chart explains that majority of the respondent faces current challenges in education sector is poor technologically illiterate 38.1% and poor infrastructure 37%
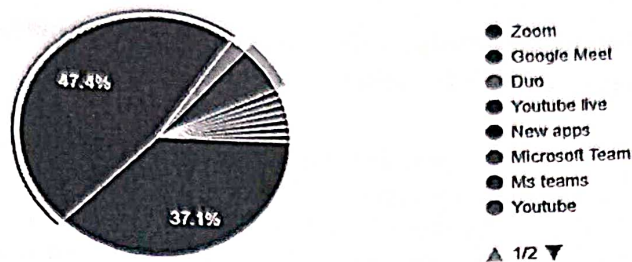
3. **How far has education of modern technology reached in India?**

- 22.7%
- 21.6%
- 9.3%
- 16.5%
- 29.9%

- ● Villages-Towns
- ● Urban area
- ● Rural area
- ● All over india
- ● Still not reached

Source: Primary Data (1.3)

Interpretation: The above graph represents that education of modern technology reached in urban area is 29.9%, villages and towns 16.5%, Rural area 9.3%, all over India 22.7% and still not reached technology is 21.6%.
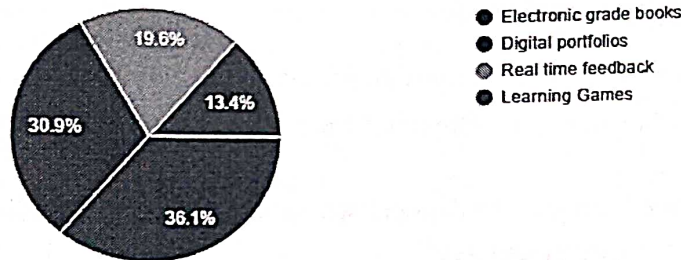
4. **Which is most comfortable and easily accessible online learning platform?**

- Zoom
- Google Meet
- Duo
- Youtube live
- New apps
- Microsoft Team
- Ms teams
- Youtube

▲ 1/2 ▼

Source: Primary Data (1.4)

Interpretation: It is observed that 47.4% of respondents are comfortable with Google meet online learning platform. Zoom platform is also easily accessible in online learning 37.1% the above pie diagram provides details that 6.2% of respondents are comfortable with YouTube live, and other platform like Duo 2.1%, New apps 1% and Microsoft team 1.3%.

5. **How technology will be used for future teaching.**

- Electronic grade books
- Digital portfolios
- Real time feedback
- Learning Games

Source: primary Data (1.5)

Interpretation: According to respondents 36.1% respondents says that technology can be used for future teaching in Electronic grade books, 30.9% says that it can be used for Digital portfolio, 19.6% says that it can be used for Real time feedback and 13.4% says that it can be used for learning games.

6. **Modern technology can impact the teaching and learning process inside or outside the school.**

Actual Data:

	Favoured	Not Favoured	Total
Impact Teaching learning Process	85	12	97
Learning Process has changed due to Internet	72	25	97
Total	157	37	194

Level of Significance: 0.05

ANOVA: Single Factor

SUMMARY

Groups	Count	Sum	Average	Variance
Column 1	2	157	78.5	84.5
Column 2	2	37	18.5	84.5

ANOVA

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	3600	1	3600	42.6035503	0.02267686	18.51282051
Within Groups	169	2	84.5			
Total	3769	3				

CONCLUSION

Since, P-value is less then level of significance.

Therefore, Null Hypothesis falls under critical region

Hence, Null Hypothesis is rejected.

Therefore, there is relationship between modern technology and enhanced teaching learning process.

SOURCE OF DATA COLLECTION:

Primary Data:
The researcher in his research paper has prepared the questionnaire based on the Likert scale using the tool Google form. The researcher collected the data from 97 respondents. The data mostly is collected from the young population in the age bracket of 15-35 years which account of 79.2% and age bracket of 36-55 which accounts for 8.7% of the sample size. In all, 97 respondents have filled the questionnaire through Google form.

https://forms.gle/BSy3W1R8wWGSnDSTA

Secondary Data:
The researcher has also used the secondary data for the study. The Various journals,magazins, websites of the Government agencies, news paper ,books and articles etc were surfed, which helped the investigator to comprehend the research title with broader sagacity. Review of the literature helped in finding the gap analysis.

LIMITATION OF THE STUDY

This study has the following limitations:

1. The study undertaken by the researcher is based on primary data, with limited respondent.

2. The secondary data available through sources was not objective specific and was available in bits and pieces.

3. The biasness of the responded towards the data collected cannot be overlooked.

CONCLUSION OF THE RESEARCH STUDY

The finding of the study shows that Modern Technology is an integral part of living in 21st-century in education, referred to the fourth revolution that is accompanied by challenges and opportunities. It also has structural character and therefore has the ability to include and exclude the technological factors. In today's modern era students not only have computers to help them with their schoolwork and projects but also internet for research while teachers use technology to enhance their lessons.

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