
A STUDY ON THE INCREASED USE OF TECHNOLOGY IN TEACHING AND LEARNING PROCESS IN BHIWANDI CITY OF MAHARASHTRA FROM STUDENT'S PERSPECTIVE

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Abstract

Technology has changed every aspect of human life. It has revolutionized the way we live, we work, and the way we interact with each other. The rapid advancement in technology has transformed all fields including the education sector. It has benefited all sectors in numerous ways. This study explores the increased use of technology in students learning process and teaching process in education sector especially in the city of Bhiwandi, Maharashtra. The study also concentrates on the traditional teaching and learning approach and what changes are brought by technology in the traditional teaching and learning process. The study also reflects students' engagement, their progress, understanding level, creativity and innovations brought after increased use of technology. The integration of technology has changed the way business operates today, the way they interact with their customers, their accounting process, recruitment processes. So, transformation of teaching and learning process is equally important to mould the students to meet these requirements. The outcomes of the study will show how effective technology has proven to be to meet the current requirements. The study showcases the major transformations brought by the education sector in teaching and learning process in. And the research will also guide us the sectors those need more improvement. We will also see how we can integrate the favourable process traditional approach with new modern approach of learning process.

Keywords: Technology, Teaching, Learning, Student's Perspective.

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Introduction:

Education is a platform in which young generations are trained and made prepared for the future. Education provides knowledge and skills which help the person to get employed in desired field. The Indian Education System is very popular and quite different from other countries due to its change in the evolution from ancient to modern technology advanced educational system.

During ancient education, there were 5 big well-known universities like Takshashila, Nalanda, Vallabhi, etc., which focus on the all-round development of students and those in the medieval period there existed 2 institutions madrasah and maqtabs which mostly focus on building student religious and leaders of the future. In modern education, there are well known autonomous institutes like IITs and IIMs which are famous all around the world. During this Education system students had to live away from their and take education. They were shaped in such a way that they can survive in any condition. The principal objective was to clear the academic goals. Students had to go to schools and colleges to acquire knowledge. They did not have any other alternate options.

In the modern era, industries and technology are increasing tremendously. Today industrial sector looks for a candidate that best suits. With this ever-increasing demand of the industrial sectors, our education also needs to be upgraded. Today in this digitalised era all sectors have adapted

technology and hence our education system also been upgraded with the technology to some extent. Today all study materials are available. The modern Indian education system has upgraded technology in many aspects like admission process, current syllabus is also upgraded as per technological requirements, exam process, teaching process, and many more. Education system needs to update themselves such a way that they can mould the students to adapt these changes. The system basically needs to update its overall learning process. The transformations brought should be according to the needs but it's core objective should not be lost. The education system must update its learning processes to meet these demands while retaining its core objectives.

This study covers the Bhiwandi City of Thane district, Maharashtra, which is a commercial city and a major trade centre that connects Mumbai and the rest of India through the Mumbai–Agra highway. It is known for its textile industry. This is expected to see growth in Bhiwandi in the future due to its strategic location, ongoing infrastructure development, upcoming Metro-5 and affordable housing.

For the study the data has been collected from both primary and secondary sources. The sample includes professors from different junior and degree colleges. Students from different colleges between the age group of 17-25 years. It also includes students' students of management courses, Accounting & Finance department.

Review of Literature:

- A study by National Institute for Micro, Small and Medium Enterprises (ni-msme) (An organization of the Ministry of MSME, Govt. of India) Yousufguda, Hyderabad-500045 concluded that about 78% of the entrepreneurs expressed that the availability of skilled labour is one of the major concerns of the industry. In order to remain competitive, the global market and to withstand increasing competition in domestic market it is necessary to ensure the large investment in modernization and expansion.
- Impact of modern technology in education May 2018 Journal of Applied and Advanced Research (Authors: R.Raja & P.C.Nagasubramani) concluded that Technology has a positive impact on education and at the same time may also pose negative effects. Teachers and students should take advantage of this in the good light and eliminate the drawbacks which are pulling back many of students as well as schools from achieving excellence. It is thus time for every country to introduce a more technologically equipped education sector in the future.

Need & Importance of the Study:

The need of the study arises to the understand technology's role in enhancing teaching and learning processes in India, to investigate the impact and effectiveness of technology integration in teaching and learning processes and to identify the challenges and opportunities for future development.

The globalisation of education has already necessitated the application of digital technologies. Online platforms were available for conducting classes, sharing resources, doing the assessment and managing the day-to-day activities of academic institutions. However, the use of these platforms was proactive. The COVID-19 Pandemic has forced the institutes to adopt the online teaching mode to sustain the education system. Following are the needs for the study:

1. Current State of Technological adaption:

There is a need to overlook at the transformations brought by the Indian Education System and to what extent does Commerce department has adapted that.

2. Changes in Teaching Methods:

The study will also showcase the key changes brought in teaching methods and learning approach among the students in commerce department as compared to the traditional methods.

3. Upgradation of Teachers:

To put a look whether the teachers are trained properly to adapt these transformations. And to check that how effective this has been proven.

4. Classroom Structure:

To check whether the old classroom structures has been transformed along with the updated teaching methods.

5. Students Participation:

To overview students' participation in education after transformation, whether number of raised or dropped down.

6. Adaptation with requirements of Commerce:

To see if the changes are made or they are capable enough to mould the students to meet the current requirements of commercial markets.

7. Universal Acceptance:

The purpose of the study is to check if the technology that has been adapted or transformations made are universally acceptable or not.

8. Overcome the limitations: This study will examine if the limitations in the traditional education system have been overcome. Limitations like student's school dropout rate, student suicide rate.

Research Objectives:

The main objectives of the study are as under:

- 1:** To understand the need of technology in education department.
- 2:** To identify the challenges faced by teachers and students in this new era of education.
- 3:** To find future improvements needed to brought down.

Research Methodology:

This study involves a mixed-methods approach, combining both qualitative and quantitative data collection and analysis methods.

Research Design

A survey design was used to collect data from a sample of 100 Students & Teachers in Bhiwandi City.

Data Collection

Primary data was collected through a self-administered questionnaire.

Data Analysis

To analyse the findings different charts have been used.

Procedure

The questionnaire was distributed to students during class hours, and responses were collected over a period of one week.

Limitations

The study's limitations include the small sample size and potential biases due to convenience sampling.

Hypothesis:

H₁: Technology has increased student's participation in virtual digital platforms.

H₂: Integration of technology in teaching and learning process significantly improve student's academic performance.

Findings of the Study:

1. Growth of Industrial Sector: Bhiwandi due its locational advantage has seen a major growth in the industrial sector Today not only power loom industry but various other industries have also entered here. And now Bhiwandi is treated as the greatest industrial hub in state of Maharashtra

2. Increased Infrastructure: Bhiwandi has seen a significant infrastructural development in last decade. There is construction of new roads, flyovers and a proposed metro line is about come. This all-infrastructural development will increase Bhiwandi's connectivity with overall major cities. Most of the schools and colleges have adapted digitalisation. They have introduced Audio-Visual classrooms. Online exam process has allowed

3. Increased Participation of students: Virtual Classrooms during the Covid-19 period has increased student's participation in online learning platforms. Today majority of students find it more convenient to learn from online platforms because they have alternate options. Even online test series or mock tests available are found worthy Infact those students who cannot afford highly expensive coaching courses can take subscription at affordable cost and can learn through online platform.

4. Reforms in Exam Process: Today taking from admission process to examination process technology has played a major role. Students even for reason if they are away from their remote location can take admission online and also appear pear for the exams on selective cases.

5. Reforms in Paper Assessment: Earlier in traditional process physical papers were checked after technological improvement online evaluation of exam was introduced. Where teachers can evaluate the papers onscreen rather than physical handling the papers. So, this has overcome the issue of lost of papers. Mismanagement or malpractice in evaluations.

6. Job Opportunities: Today because of digital era, integration with customers is done highly through online modes. So here the students well trained through their academics to fit themselves in this digital era.

7. Upcoming Reforms: There is a need of Integration of digital payment systems to facilitate seamless transactions and reduce cash handling. Incorporation of AI and ML to improve data analysis, forecasting, and decision-making in commerce education.

Challenges Faced by Teachers & Students:

1. Technical Knowledge:

Teachers sometimes are unaware of some online process. There should be proper training sessions.

2. Server Issue:

Although Bhiwandi is developing there is still issue of Internet Connectivity in few areas. So, both students and teachers find it a major barrier.

3. Decline in student's participation in classrooms:

When we look back into 5-7 years student's attendance in colleges has declined.

4. Student's adverse mindsets:

Today students of Bhiwandi are losing their competency attitude. They are not that much curious about their performance.

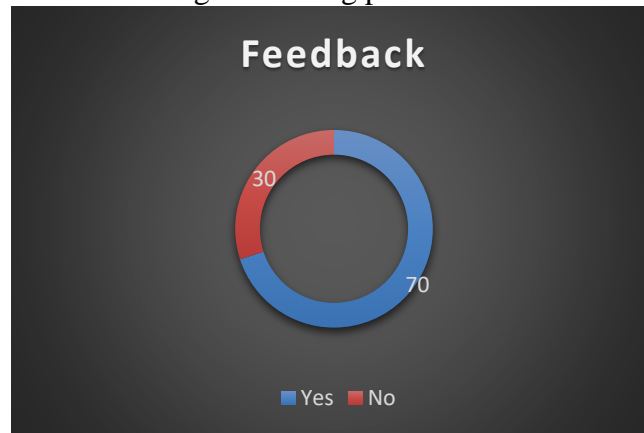
5. Loss of traditional concepts:

The traditional methods of teaching are losing day-by-day. Students cannot connect to their teachers as they did in olden days.

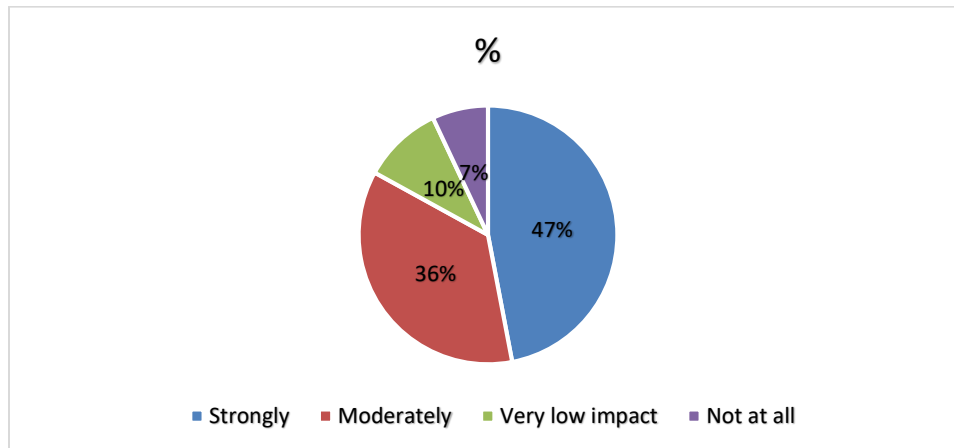
Data Interpretation:

The bellow collected data is from a questionnaires sent to 100 respondents which includes students of different age group.

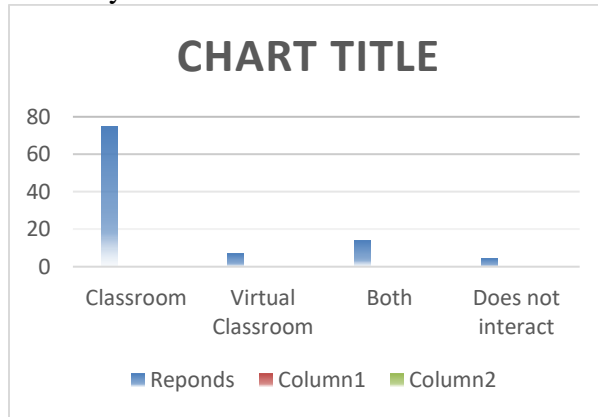
1. Have you ever come across teaching or learning platform?



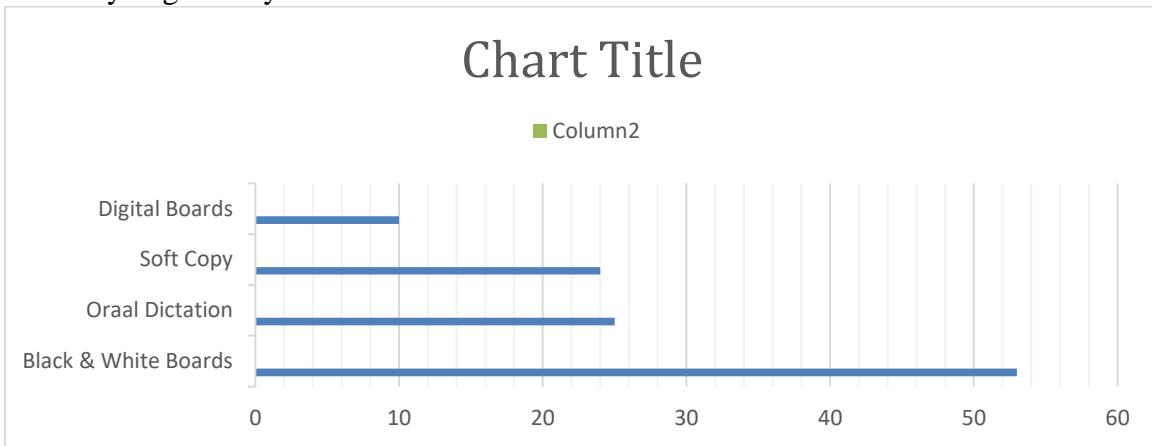
2. How much the teaching and learning process in education sector have affected due to technological advancement?



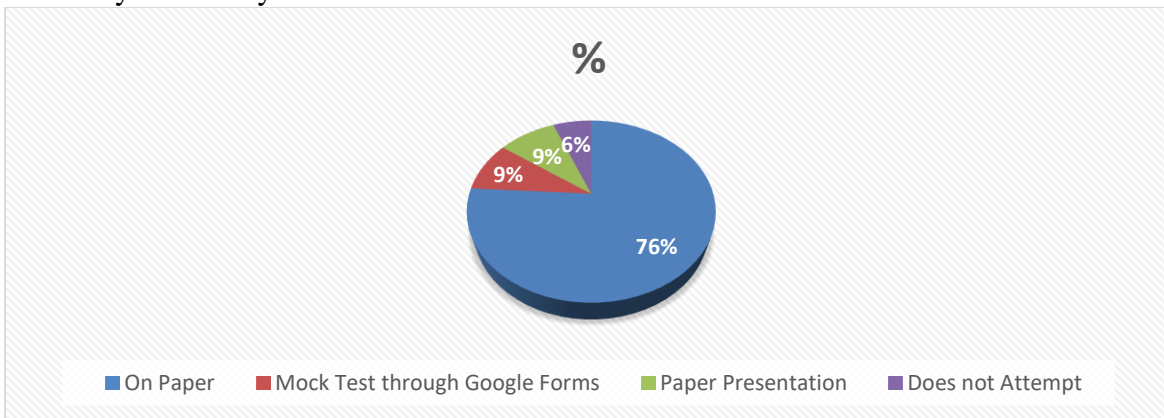
3. How do teachers interact with you?



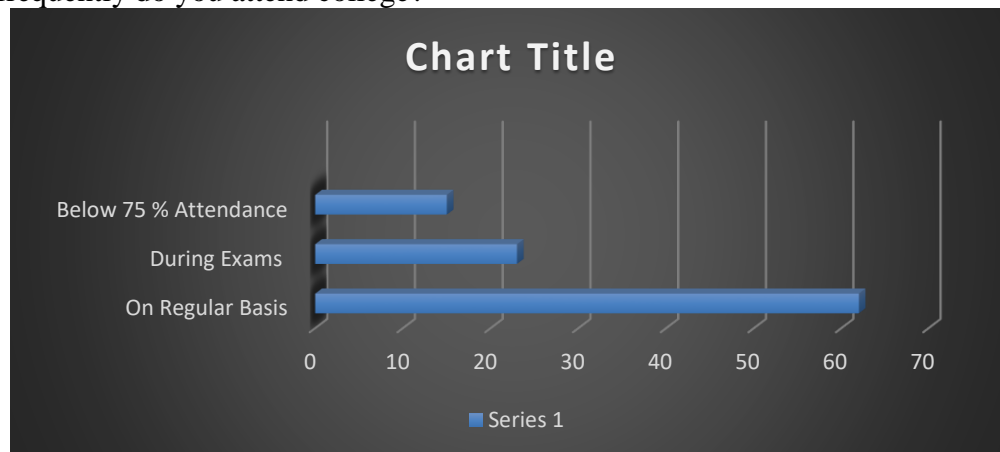
4. How do you get study notes?



5. How do you attend your class test?



6. How frequently do you attend college?



Suggestions:

- Improvement in Internet Accessibility.
- Focus on real life learning.
- Skilled based education must be introduced.
- Clear vision is a must.
- Better internet access, digital resources, teacher training programmes are needed to enhance learning.
- Online safety and digital literacy skills are also essential.
- Providing each student with a laptop or tablet, introducing educational apps and software to supplement traditional instruction.

Conclusion:

Overall, this study provides strong evidence that technology has the potential to transform the educational landscape increasing student participation and improving the quality of education. As, we move forward in this digital age, it is essential that we continue to harness the power of technology to create a more equitable and effective education system for all. Hence, both hypotheses are accepted.

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