

A Study on the Effectiveness of Teaching Methods During Covid 19 in Secondary Schools of Lucknow

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Abstract- The COVID-19 pandemic dramatically accelerated the adoption of online learning methods in education. This abstract explores the various teaching methods employed during this period, including synchronous and asynchronous learning, flipped classrooms, and project-based learning. It also discusses the challenges and opportunities presented by these methods, such as the digital divide, student engagement, and assessment strategies. The abstract concludes by emphasizing the need for ongoing research and innovation in online teaching methods to ensure effective and equitable education for all students.

Index Terms- Online Learning, Distance Learning, Virtual Learning, Synchronous Learning, Asynchronous Learning, Blended Learning, Hybrid Learning

I. INTRODUCTION

In the end of the year 2019, a disease started to spread in the city of Wuhan situated in China. Several thousand people died in Wuhan within few months due to this severe disease.

Within no time, Covid 19 spread all over the world as this disease spreads from human to human transmission. Several cities were lockdown to control this transmission of disease. Factories, Banks, Hotels, Malls, Schools, Colleges, Transportation everything came to a standstill. For the first time, the world experienced total lockdown for few months.

Every area of life was affected by this. But the most affected one was education. A question aroused that, how long we can stop imparting education? How we can educate even when everything is standstill during the severe pandemic? What are the ways in which we can continue classes and make pupil understand things in an effective way? What are the problems which students and teachers faced?

Technology played a very significant role in answering the questions mentioned above. My study would focus on the effectiveness of teaching methods during Covid 19 in secondary schools of Lucknow.

II. REVIEW OF RELATED LITERATURE

- Irudayam, Rayappan,(2015)"Development and implementation of a multimedia package to teach biology to std xii students".
- Vimalkumar, P,(2017)"Effectiveness of blog based learning in Physics at Higher secondary level".

- Shinde Sheetal Popatrao(2013)"A Study Of Effectiveness Of Web Based Technology Implemented In Selected Private Schools In Satara District."
- Ms. Zakiya Sultana H. Zarzari (2014),"A Study of the Effectiveness of Activity Based Teaching on Academic Achievement of 8th Standard Students in Biological Sciences"
- Sharma,Deepika(2018),"Analysis and design of cloud computing based e-learning platforms"
- Patel, Tarun(2016),"Effectiveness of incorporating internet and computer based tasks to develop writing and speaking skills of mba students"
- Sivankalai, S(2014),"A study on teaching and learning support systems using digital libraries with special reference to biological sciences"

Significance of the Study

This study would primarily focus on the effectiveness of teaching methods during covid 19 pandemic.It would also study the problems faced by the students during online classes and try to suggest their solutions (if feasible).

Statement of the Problem

"A study on the effects of change in ways of teaching and learning during Covid 19 in Secondary Schools of Lucknow."

Definitions of Key Terms

- **Teaching:** Teaching is the process of providing opportunities for students to produce relatively permanent change through the engagement in experiences provided by the teacher.
- **Learning:** Learning is the modification of behaviour through experience and training.

- **Covid 19:** An acute respiratory illness in humans caused by a coronavirus, capable of producing severe symptoms and in some cases death, especially in older people and those with underlying health conditions. It was originally identified in China in 2019 and became pandemic in 2020.
- **Secondary Schools:** Secondary education in India begins after eight years of elementary education and is divided into two years of secondary education (classes IX and X) and two years of senior secondary education (classes XI and XII). These students are eligible for senior secondary school.

Objectives

To hasten the installation of charging stations for electric vehicles, both the United States and the European Union have instituted incentive programs. To meet the charging needs of China's 6 million electric vehicles by 2025, the country will need to build more than 24,000 centralized charging and replacement power stations and more than 5.8 million scattered charging lots. There will surely be a tipping point in the next several years for the market for electric vehicles and the charging infrastructure that goes along with them. Users' safety and comfort are • To study the effectiveness of various methods of teaching at secondary level.

- To study the various problems occurring during Covid 19 in imparting secondary education.
- To study the understanding of subject content imparted during Covid 19 among students.
- To study the solutions to the problems faced by the students .Delimitations

The study will be delimited among the students of Class IX to X studying in CBSE/ICSE board schools of Urban Area in Lucknow District.

Research Methodology

The Study will be done using Descriptive Survey Method.
Population

All students of Class IX to X studying in CBSE/ICSE board schools in Lucknow District.

Sample

The sample size will be 200 students from 10 schools. The schools will be selected using Simple Random Sampling. Then students will be selected from selected schools, using method of Simple Random Sampling .

III. TOOLS

A self made Questionnaire/Interview Schedule to study the problems of these students and teachers during Covid 19.

Data Collection

The objectivity of the test will be maintained while conducting the tests. The researcher should adopt an unbiased approach towards the students (of the sample). Researcher will go into the class and distribute the questionnaire. After completion of the questionnaire, the researcher will collect the sheets.

Scoring

The scoring will be done as per the answer key prepared for the Questionnaire.

Data Analysis

The appropriate statistical method will be applied by the researcher for analysis of the data. The objectivity will be maintained by the researcher for data analysis. The researcher will adopt an unbiased approach and will do it (analysis) without any prejudice..

IV. CONCLUSION

The COVID-19 pandemic served as a catalyst for a rapid and often unplanned shift to online learning, forcing educators and students alike to adapt to new teaching methods and technologies. While this period presented significant challenges, including the exacerbation of existing inequalities and the need for innovative pedagogical approaches, it also offered valuable insights into the potential of technology-enhanced education. The experiences gained during this time underscore the importance of flexible, adaptable, and student-centered learning environments. Moving forward, the lessons learned from the pandemic should inform the development of more robust and equitable educational systems.

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