

A STUDY OF THE IMPACT OF ONLINE TEACHING-LEARNING SYSTEM DURING THE COVID-19 PANDEMIC

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ABSTRACT

Due to the covid-19 pandemic whole Education system has been transformed from direct teaching learning to virtual/online teaching learning. Keeping in this mind researcher was curious to do study on impact of Pandemic on Education system. Present research study is all about the effectiveness of online teaching tools. This research study aims

- 1.To know the adaptability of students in online learning during pandemic.
- 2.To know the changes occurring in students' educational life in these unprecedented times.
- 3.To know the benefits of online teaching learning system during pandemic.

Survey research method is used in present research. Researcher used Questionnaire to collect the data from students of Ashoka College of Education. Total sample is 75 students and population were 200 students, after receiving the responses from students' analysis is done by using percentage. Present research shows that 68% students felt online teaching tools are proved innovative and effective for learning. Mostly 91% students used mobile devices for online learning. 80% students reported that technological devices have increased interest in online learning. With the help of this research study researcher understand that new way of online teaching and learning system has emerged and this young generation is comfortable and adoptable to this.

INTRODUCTION

Since the onset of the Covid-19 pandemic, time, as dynamic as it is in combination with the virus, has subjected humans to new and new muddles. As the author is a student and an enthusiast for teaching, this paper shall concern itself with the state and the development of the education experience which include the experience of learning as well as teaching. Students as well as their teachers have had to adapt to the novel situations. Education, knowledge and wisdom one might argue are the gifts of privilege of stability, but we encounter an important question – “Are we willing to sacrifice the quality of our future generations by discontinuing the continuous process of education?” The obvious answer is “No”. Now, then, how can education be continued in times where human touch, contact and in-person interactions are prohibited? To answer this question is not the aim of this study but to evaluate the answers found by fellow humans and to find the answer to the better question – “How effective have they been?” In the past two years there as a tremendous change in the education system which created chaos. To stop the students from getting their years wasted, the education system came up with online teaching learning tools to help students so that they do not miss out anything academically. The first question was asked in the beginning of the pandemic and the second question, our point of concern, is being asked after things have been carried out for two years.

NEED: This study aims to know about the effects of pandemic that has on student's education and how effectively the provided online learning tools worked. As said by Ilya Prigogine, *‘the future is uncertain.... but this uncertainty is at the very heart of human creativity.’* With the uncertain outbreak of pandemic, the big question that came in front of the education system was how to continue it. With the teaching not being limited within the confines of a classroom, the education system took the help of online learning tools. If online has to become as

viable as offline, it is crucial to know the complications, so that improvements can be done. By knowing the problems that a student faces during the online learning, the education paradigm adapted new designs called online learning tools. This study, therefore with the use of survey tries to know the student’s attitude towards the online learning tools and its effectiveness.

And why such a study is important?

This is a study on students by a student. The internal insights of students, on online education might be invisible to the teacher /external observers. This study may not be new but may have certain unique aspects.

In the world of technology, humans are always learning and adapting new ways. During pandemic, the same technology came to save the education system. To know more about how it helped students, what were its effects and how effectively the online tools came to the rescue, this study is being done. This research will help to know the effectiveness of online learning on students. It will also play a significant role in knowing the use of technology for better purpose.

DEFINITIONS

A. Conceptual:

1. Online - controlled by or connected to a computer. (Oxford Dictionary)
2. Learning -Learning is the process by which the individuals acquire various habits, knowledge, and attitudes that are necessary to meet the demands of life, in general. (G.D. Boaz, 1984)
3. Teaching – Teaching is a system of actions intended to induce learning. (B.O. Smith)
4. Pandemic – A pandemic is an epidemic of an infectious disease that has spread across a large region, for instance multiple continents or worldwide. (Wikipedia)

B. Operational:

1. Online device –A device can be mobile or laptop which is used by an internet connection.
2. Learning – to gain knowledge about a specific subject after studying or experiencing.
3. Teaching – to impart knowledge about a specific subject to students.
4. Pandemic – A breakout of a disease that spreads all over the world.
5. B.A.B.Ed. / B.Sc.B.Ed. – a four-year integrated course which is done after 12th in arts and science of Ashoka College of Education.

OBJECTIVES

1. To know the adaptability of students in online learning during pandemic.
2. To know the changes occurring in students’ educational life in these unprecedented times.
3. To know the benefits of online teaching learning system during pandemic.

ASSUMPTIONS

1. Use of videos, PPTs increases interest in learning.
2. In comparison to traditional learning, online learning is more flexible and accessible.

RESEARCH QUESTIONS

What is the impact of online teaching learning system on students during COVID-19 pandemic?

SCOPE AND LIMITATIONS

A. Scope:

1. This research focuses on the adaptability of students in online learning.
2. This research covers all the online tools which are used by the teachers in this pandemic.

B. Limitations:

1. The conclusions of research are depending on the data of respondent collected after the survey.
2. Data conclusion is totally based on the responses given by the students.

RESEARCH METHODOLOGY:

This research is based on survey method.

Table 1. Objective wise Methodology

Objectives	Methods	Sample	Methods of Sampling	Tools of Data collection
1) To know the adaptability of students in online learning.	Survey	Ashoka College of Education. Total no. of respondents= 80	Purposive Sampling Method	Researcher made questionnaire - Google form.
2) To know the changes occurring in students educational life in these unprecedented times.	Survey	Ashoka College of Education. Total no. of respondents= 80	Purposive Sampling Method	Researcher made questionnaire - Google form.
3) To know the extent of effectiveness of online learning tools on students.	Survey	Ashoka College of Education. Total no. of respondents=80	Purposive Sampling Method	Researcher made questionnaire - Google form.

DATA COLLECTION TOOL IN PRESENT RESEARCH

Researcher made questionnaire was used to collect the data and it was validated from the experts.

DATA ANALYSIS TOOLS AND TECHNIQUES

In present research, researcher has collected data and analyzed data by a percentage statistical tool.

FINDINGS

In this present research study, the findings are presented as per the objectives-

Objective 1: To know the adaptability of students in online learning during pandemic.

Data analysis:

According to 2.6% students online teaching is least effective, according to 5.1% students online teaching is less effective, according to 39.7% students online teaching is effective, according to 28.2% students online teaching is more effective, according to 24.4% students online teaching is most effective.

0% students have least understood about the tools and how to use it, 1.3% students have less understood about the tools and how to use it, 26.9% students have understood about the tools and how to use it, 42.3% students have understood more about the tools and how to use it, 29.5% students have understood the most about the tools and how to use it.

According to 1.3% students the topics explained through PDFs, PPTs and the new pedagogy is least understood, according to 5.1% students the topics explained through PDFs, PPTs and the new pedagogy is less understood, according to 21.8% students the topics explained through PDFs, PPTs and the new pedagogy is understood, according to 38.5% students the topics explained through PDFs, PPTs and the new pedagogy is more understood, according to 33.3% students the topics explained through PDFs, PPTs and the new pedagogy is most understood. According to 73.1% students the online teaching tools that best helped in learning the concepts is PPTs, according to 6.4% students the online teaching tools that best helped in learning the concepts is Recorded Videos, according to 6.4% students the online teaching tools that best helped in learning the concepts is the online teaching tools that best helped in learning the concepts is PDFs, according to 14.1% students the online teaching tools that best helped in learning the concepts is YouTube.

According to 2.6% students online teaching-learning takes place least effectively, according to 2.6% students online teaching-learning takes place less effectively, according to 34.6% students online teaching-learning takes place effectively, according to 38.5% students online teaching-learning takes place more effectively, according to 21.8% students online teaching-learning takes place most effectively.

According to 3.8% students online learning is least efficient than conventional learning, according to 11.5% students online learning is less efficient than conventional learning, according to 28.2% students online learning is efficient than conventional learning, according to 39.7% students online learning is more efficient than conventional learning, according to 16.7% students online learning is most efficient than conventional learning.

According to 1.3% students the methods taught through online learning tools are least adapted, according to 3.8% students the methods taught through online learning tools are less adapted, according to 34.6% students the methods taught through online learning tools are adapted, according to 38.5% students the methods taught through online learning tools are more adapted, according to 21.8% students the methods taught through online learning tools are most adapted.

According to 11.5% students, the grades would improve if the mode of teaching was not online, according to 24.4% students the grades would less improve if the mode of teaching was not online, according to 44.9% students the grades would be same even if the mode of teaching was not online, according to 15.4% students the grades would be less bad if the mode of teaching was not online, according to 3.8% students the grades would be worse if the mode of teaching was not online.

Objective 2: To know the changes occurring in students’ educational life in these unprecedented times.

Data analysis:

11.5% students strongly agrees that online teaching motivates to learn more, 39.7% students agree that online teaching motivates to learn more, 35.9% students are neutral that online teaching motivates to learn more, 9% students disagree that online teaching motivates to learn more, 3.8% students strongly disagree that online teaching motivates to learn more.

15.4% students strongly agrees that online learning has made education affordable than physical learning , 33.3% students agrees that online learning has made education affordable than physical learning, 32.1% students are neutral on online learning has made education affordable than physical learning, 14.1% students disagrees that Online learning has made education affordable than physical learning online learning has made education affordable than physical learning, 5.1% students strongly disagrees that online learning has made education affordable than physical learning.

Do you struggle to focus on the screen for long period of time: (Rate on a scale from 1 to 5, 1 representing your ability to focus easily and 5 being least easily/if you find it difficult.): 6.4% students struggles the least to focus on the screen for a long period of time, 9% students struggle less to focus on the screen for a long period of time, 30.8% students struggles to focus on the screen for a long period of time, 37.2% students struggles more to focus on the screen for a long period of time, 16.7% students struggles the most to focus on the screen for a long period of time.

According to students the problems they faced during online lectures are:

1. Network or Technical Issue.
2. Sitting for a long time in front of the screen affects the eyes.

According to 1.3% students the sense of using technological devices has least increased post the online learning experience, According to 3.8% students the sense of using technological devices has less increased post the online learning experience, According to 14.1% students the sense of using technological devices has increased post the online learning experience, According to 34.6% students the sense of using technological devices has increased more post the online learning experience, According to 46.2% students the sense of using technological devices has increased the most post the online learning experience.

26.9% students said Yes for using a laptop and having a Wi-Fi connection before pandemic and 73.1% students said No for using a laptop and having a Wi-Fi connection before pandemic.

41% students have said Yes for having to buy any new devices especially for online classes, 48.7% students have said No for having to buy any new devices especially for online classes, 10.3% students have said Maybe for having to buy any new devices especially for online classes.

According to 60.3% students Traditional/Physical classroom would have been better in the last 2 years, according to 39.7% student's Virtual classroom would have been better in the last 2 years.

According to 91% students' technology has become an integral part of life now, according to 2.6% students' technology has not become an integral part of life now, according to 6.4% students' technology maybe has become an integral part of life now.

Objective 3: To know the benefits of online teaching learning system during pandemic.

Data Analysis:

According to 91% students the device used for online learning is Mobile, according to 9% students the device used for online learning is Laptop.

According to 0% students the online tools in comparison to physical classroom is least effective, according to 19.2% students the online tools in comparison to physical classroom is less effective, according to 32.1% students the online tools in comparison to physical classroom is effective, according to 29.5% students the online tools in comparison to physical classroom is more effective, according to 19.2% students the online tools in comparison to physical classroom is most effective.

According to the students the features they would like in an online tool to improve the learning experience would be:

1. Activities and games related to the topic
2. Animated videos
3. Recording of the meeting via mobile.

6.4% students strongly agrees that learning experience would have been better if they were better acquainted with technology and tools, 48.7% students agrees that learning experience would have been better if they were better

acquainted with technology and tools, 37.2% students are neutral that learning experience would have been better if they were better acquainted with technology and tools, 6.4% students disagrees that learning experience would have been better if they were better acquainted with technology and tools, 1.3% students strongly disagrees that learning experience would have been better if they were better acquainted with technology and tools.

32.1% students had a better experience of online learning, 16.7% students had a good experience of online learning, 30.8% students had neutral experience of online learning, 17.9% students had a bad experience of online learning, 2.6% students had a worse experience of online learning.

15.4% students strongly agrees that technology has bad effects, 46.2% students agrees that technology has bad effects, 28.2% are neutral that technology has bad effects, 10.3% studentsdisagrees that technology has bad effects, 0% students strongly disagrees that technology has bad effects.

According to 11.5% students’ online education has made the teachers task least easy, according to 9% students’ online education has made the teachers task less easy, according to 42.3% students’ online education has made the teachers task easy, according to 23.1% students’ online education has made the teachers task easier, according to 14.1% students’ online education has made the teachers task easiest.

3.8% students strongly agrees that evaluation systems have been affected because of the online education, 48.7% students agrees that evaluation systems have been affected because of the online education, 35.9% students are neutral that evaluation systems have been affected because of the online education, 11.5% students disagrees that evaluation systems have been affected because of the online education, 0% students strongly disagrees that evaluation systems have been affected because of the online education.

11.5% students think that they have been marked/evaluated unfairly in the past 2 years because of online mode, 57.7% students don’t think that they have been marked/evaluated unfairly in the past 2 years because of online mode, 30.8% students think that maybe they have been marked/evaluated unfairly in the past 2 years because of online mode.

CONCLUSION

This present research study shows 90% students used the mobile as it was handy and easily accessible for teaching and learning. More than 80% students found online learning is more interesting. Most students agreed that online learning emerged as a new way of teaching and learning which is effective and less expensive.

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