
E-LEARNING DURING LOCKDOWN OF COVID-19 PANDEMIC IN INDIA

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ABSTRACT:

Due to the crisis of the Covid-19 epidemic, E-learning has become an essential component of all educational institutions such as schools, colleges. The lockdown to prevent this terrible situation of Covid-19 has completely disrupted the offline learning process. E-learning offers a learning method that is primarily considered the best for students in such situations. The primary facts have been collected through a self-structured questionnaire by Google Forms to find out the attitude of undergraduate students of colleges in India towards E-learning. The objective of the presented research paper is to find out the process of E-learning among the students familiar with web based technology and this study also presents solutions to improve the self-study skills of the students. For this study, 350 respondents from all over India have been selected for demonstration using a stratified sampling method. The findings of the study suggest that the impact of E-learning on students reflects their interest in and performance in the use of E-learning resources. The findings of the study also revealed the fact that E-learning has become very popular and popular among the students especially during the period of lockdown due to the epidemic.

Keyword: Web-based Technology, Covid-19 Pandemic, Self-study skill, Students performance.

INTRODUCTION:

Education aims to create someone perfect. Education provides the simplest way for people to succeed in their goals additionally as education also helps in developing social responsibilities. the main focus of education is learning. Learning could be a process of acquiring knowledge or skills through study, experience, or being taught. Any accidental event within the world leaves its impact on education and academic institutions; hence the Covid-19 epidemic has also had control on education. the govt. was forced to shut educational institutions to manage or reduce the spread of this deadly virus outbreak worldwide. This incident forced the teaching experts to consider alternative methods of education. And thus it paved the way for web-based learning or E-learning or online learning. In today's scenario, education has entered the digital world. within which students and teachers are virtually connected. E-learning is incredibly easy to grasp and implement. the most components of this method of learning are desktops, laptops or Smartphones, and also the use of the net. E-learning paves the most effective way for rapid development altogether areas, especially during the lockdown; this was also proved by the event of education.

SIGNIFICANCE OF THE STUDY:

This study will help to explore students' attitudes towards learning during the COVID-19 epidemic. This study was done especially for students studying in various colleges and universities and even schools who wanted to get additional information about the contribution of E-learning in the process of education during this epidemic. It can be a paradigm of learning to enhance the knowledge and skills of the student through digital technologies in educational institutions. The government and education department will have to provide better infrastructure for E-learning for the betterment of students.

OBJECTIVES:

- I. Detecting the tendency of students to use E-learning resources.
- II. Identifying students' interest and attitudes towards using E-learning resources in India.
- III. Suggesting possibilities for students to use E-learning resources.

METHODOLOGY:

This study is based on elementary data. The data has been collected from students who are currently receiving their bachelor's degrees in various colleges and universities. An online questionnaire has been prepared through Google Forms to collect data. Only 350 respondents have been selected on the basis of stratified sampling method in students. The period of study is the month of April 2021.

ANALYSIS:

5.1. The willingness to E-learning:

The information revolution and the global availability of technology have a major impact on contemporary education. It is playing a major role in all new educational skills in education at all levels. There are many sources available online to learn from

wherever you need them. Digital devices and gadgets not only provide students to engage in entertainment but also provide them more opportunities to engage in learning activities. In this context, the student's desire for E-learning is presented in Table 1.

Table 1
Students' willingness to learn through E-learning

Classification	Respondent	Percentage
Yes	268	76.56
No	22	6.28
May be	60	17.14
Total	350	100

Out of 350 respondents, about 76.56 percent of students reported a desire to learn through E-learning medium. About 17.14 percent of them opined that they are learning from some other source because they have no other options. Since classrooms and educational institutions are closed due to Corona, and are now dependent only on E-learning, most institutions, where students have participated in this survey, are encouraged to learn through sources. And only 6.28 percent of them were not ready to learn due to lack of connectivity. This is evident from Table 1; The maximum number of respondents is engaged in learning from E-learning.

5.2. Improvement of the student' self-study habits and skills through E-learning:

As a result of globalization, the expectations of today's learners are very different from those of earlier students. In the present times, education is fast connecting with digital and mobile. Students want learning materials that are accessible through online mode in mobile phones and computers. The main function of E-learning is that, with its help, students can learn according to their comfort and need. In this context, improvement

in student's learning skills through E-learning is presented in Table 2

Table 2 E-learning improves your learning skills

Classification	Respondent	Percentage
Yes	277	79.14
No	24	6.85
May be	49	14
Total	350	100

Out of 350 respondents, about 79.14 percent of students reported improving their self-study skills due to E-learning. About 14 percent of them opined that they are learning from some other source because there are no other options. Since classrooms and educational institutions are closed due to Corona, they rely only on E-learning, most institutions, where students have participated in this survey, have been encouraged to learn through digital sources. And only 6.85 percent of them believed that only e sources alone cannot improve their study skills. It is clear from Table 2 that the maximum number of respondents have seen that E-learning improves their self-learning skills.

5.3. The satisfaction level of students towards online mock test:

The evaluation process is one of the important ways in the education system to detect. Different methods are being adopted to understand the learning ability of the students. The online method of learning mock tests is a quick way which is highly acceptable. This is even more important during quarantine time. In addition, the mock test is a more effective and systematic way to extract the student's abilities and understand their respective lessons, in this context the satisfaction level of the students on the online mock test is presented in Table 3.

Table:3 Students' satisfaction level towards Online Mock Test

Classification	Respondent	Percentage
Yes	247	70.57
No	44	12.57
May be	59	16.85
Total	350	100

Out of 350 respondents, about 70.57 percent of the students are satisfied with web based mock test participation. He stressed that it is more convenient and interesting. About 16.85 percent of them are of the opinion that this can be useful as students are participating in online competitive examinations. And only 10.29 percent of them are certain that web-based mock tests are not sufficient to their level of expectation. It is clear from Table 3; the maximum number of respondents are willing to participate in the mock test.

5.4. Utility of E-learning during Quarantine time:

During this time of medical emergency, many education institutes during quarantine time There are some simple steps to seek out out. Students are motivated and equipped with a link to useful material for his or her upcoming semester exams. during this context, colleges are encouraged to plan for E-learning; The utility of E-learning at quarantine time is presented in Table 4.

Table:4 Utility of E-learning during quarantine time

Classification	Respondent	Percentage
Yes	273	78
No	22	6.28
May be	55	15.71
Total	350	100

Among the 350 respondents, about 78 percent of the students are of the opinion that E-learning is very useful during quarantine time. About 15.71 percent of them are of the

opinion that this can be useful as students are participating in online competitive examinations. And only 6.28 percent of them are not positive on E-learning during quarantine time. It is clear from Table 4 that the maximum numbers of respondents are students who believe that E-learning is useful and more satisfactory in quarantine time.

5.5. Comparison between E-learning and traditional learning:

E-learning allows teachers to induce the next degree of coverage to speak the message reliably for his or her target listeners. This ensures that each learner receives the identical style of training with this learning mode. However, despite the recognition of online education, vast groups of individuals intentionally stand back from such methods, mostly because of an error. At the identical time, despite the rising popularity of online courses, traditional classroom training is that the majority of the student's choices. Unlike online learning, the classroom learning method is more real and students have a chance to debate, deliberate, and confer with their class teachers and friends. During this context, a comparison between e-learning and traditional learning on students' knowledge improvement is presented in table -5.

Table:5
Comparison between E-learning and traditional learning

Classification	Respondent	Percentage
Yes	168	48
No	101	28.85
May be	81	23.14
Total	350	100

Out of 350 respondents, about 48 percent of students highly prefer E-learning because they are learning more advanced technical courses only through online. But at

the same time, more than 28.85 percent of students still believe that traditionally learning in the classroom is better than learning through E-learning. It is clear from Table 5 that the maximum number of respondents is expressed that E-learning is useful and more satisfactory.

5.6. Face-to-face (Traditional) teaching is important for practical learning:

In the Teaching method, theoretical concepts are carried forward through various application tools that are convenient for the student. But it lacks practical teaching.

Table:6
Face to face Teaching is important for practical learning

Classification	Respondent	Percentage
Yes	280	80
No	24	6.85
May be	46	13.14
Total	350	100

Out of 350 respondents, 80 percent of the students are advocates of traditional teaching for practical sessions. About 13.14 percent of them also expressed their view that traditional teaching is important for practical sessions. And only 6.85 percent of them are not positive on E-learning for practical sessions. This is evident from Table 6; The maximum number of respondents is inclined towards traditional teaching to learn practical knowledge.

5.7. Technical Issues (Problems) of E-learning:

E-learning always relies on a strong internet connection with high band. This is not always successful due to lack of connectivity and lack of Electricity power. E-learning is worse in rural areas than in urban areas due to the lack of infrastructure requiring online courses, and as such they fail to attend their

virtual classes. In this context, the technical issues of e learning are presented in Table 7.

Table-7 Technical Issues (Problems) of E-Learning

Classification	Respondent	Percentage
Yes	101	28.85
No	176	50.28
May be	73	20.85
Total	350	100

Out of 350 respondents, about 50.28 percent of the students have experienced that, there is no such technical problem during E-learning. About 28.85 percent of them experienced technical problems. About 20.85 percent of them expressed that, sometimes it is very difficult to connect in classrooms due to poor internet connection. Video lectures, especially of Zoom and other applications, involve a lot of technical configurations, which makes it difficult for a new student or listener. This is evident from Table 6; The maximum number of respondents expressed their opinion on technical issues in E-learning.

5.8. Positivity towards E-learning:

E-learning is a new way of communicating with society. It is an effective method of teaching to bring out the best potential and aptitude of the students. In this context, students' positivity towards E-learning is presented in Table 8.

Table:8 Positivity towards E-learning

Classification	Respondent	Percentage
Yes	272	77.71
No	22	6.28
May be	56	16
Total	350	100

Out of 350 respondents, around 77.71 percent students are in favor of E-learning. Of these, about 16 percent can be positive in terms of E-learning. And only 6.28 percent of the students are not positive towards E-learning. It is observed from Table 8 that the

maximum number of respondents is positive towards E-learning.

5.9. E-learning leads to an increase in knowledge comprehensiveness.

E-learning provides maximum benefit from minimum requirements. Does it work to increase their knowledge in students? This is shown in the table below.

E-learning increases knowledge comprehension (Table:9)

Classification	Respondent	Percentage
Yes	258	73.71
No	26	7.42
May be	56	18.85
Total	350	100

Out of 350 respondents, about 73.71 percent of students believed that learning through E-learning medium increases the breadth and depth of their knowledge. About 18.85 respondents are in dilemma. And only 7.42 percent disagreed with this statement. Table 9 shows that the maximum number of respondents suggests that e learning makes their knowledge wider.

5.10. Importance of Web Based Learning:

The use of the Internet for teaching and learning is unavoidable for both teachers and students. Online courses are becoming an important component to enhance the skills of the student. Students benefit from web based learning.

Table:10 Importance of web based learning

Classification	Respondent	Percentage
Yes	257	73.42
No	20	5.71
May be	73	20.85
Total	350	100

73.42 percent of the 350 respondents considered web-based learning to be important for their career skills. About 20.85 percent of them state that it can be useful. And about 5.71

of them do not accept the importance of web-based education. From Table 10 above, it is clearly understood that most of them know the importance of web based education.

5.11. Preference to the learning environment (atmosphere):

Learning is a process that helps in acquiring knowledge, enhancing skills and improving career. There is no way to teach in the classroom in the event of this epidemic. All educational institutions are forwarded to the learning environment. Table 11 shows the attitude of the student towards the preference for the learning environment.

Table:11 Preference to the learning environment (environment)

Classification	Respondent	Percentage
Classroom learning	279	79.71
E-learning	71	20.28
Total	350	100

Out of 350 respondents, only 20.28 percent prefer E-learning. About 79.71 percent of them prefer to learn in the classroom. From this evidence, it is noted that most students prefer to learn in a classroom environment rather than E-learning

5.12. Social changes in India with the contribution of E-learning:

In contemporary society, it is being urged to adopt new technology in every field of education system. All developed and developing countries are more focused on research and development; As a result, technology has become a part of each curriculum at all levels. Countries like India are keen to introduce more new web-based courses to prepare students for the global employment market. Current learners are highly motivated by the international environment. Technological innovations are highly influential in this society. Technology

allows us to learn everything and it provides an opportunity to use technology without any discrimination. In this context, it is important to understand that E-learning brings social change in India.

Table:12 Can E-learning bring social change in India?

Classification	Respondent	Percentage
Strongly disagree	25	7.14
Disagree	13	3.71
Neutral	156	44.57
Agree	120	34.28
Strongly Agree	36	10.28
Total	350	100

Out of 350 respondents, nearly 90 percent of the students are of the opinion that E-learning is playing an important role in social change in India. They are clearly explained that E-learning provides a more inclusive basis, it reaches all heterogeneous groups and everyone has the freedom to share knowleFrom Table 12, it is clear that the maximum number of respondents are involved in social change. Is optimistic.

5.13 Type of preferred Device used for E-learning:

Among the 350 respondents, about 55.14 percent of students prefer mobile phones for E-learning, followed by laptops at 32 percent, and the remaining students mostly laptop & mobile (6.28%), Laptop, mobile and desktop (2.28%) Laptops & Desktop 2 percent.

Table-13 Type of preferred Device used for E-learning

Classification	Respondent	Percentage
Laptop	112	32
Mobile	193	55.14
Desktop	8	2.28
Laptop & Mobile	22	6.28
Laptop & Desktop	7	2
Laptop, Mobile & Desktop	8	2.28
Total	350	100

5.14. Preference the application tools for E-learning:

Table-14 What type of application tools do you prefer to use for E-learning?

Classification	Respondent	Percentage
Zoom / google Meet	144	41.14
Google Classroom	84	24
WhatsApp	35	10
YouTube	75	21.42
E-Mail	12	3.42
Total	350	100

Out of 350 respondents, about 41.14 percent of students are learning classes through Zoom / google Meet. About 24 percent of students are accessing learning materials through Google Classroom and 21.42 percent are learning through YouTube. The remaining students prefer WhatsApp 10%, Mail 3.42% respectively.

OVERALL ANALYSIS OF E-LEARNING:

6.1 Research questions

We aim to understand students' perspectives on E-learning implementation during the time of the Covid-19 pandemic. Therefore, we need to answer the following questions:

Description of the Questions

- 1 Are you interested in E-learning?
- 2 Does Earning Improve Your Learning Skills?
- 3 Are you satisfied with the Google Form Mock Test?
4. Does E-learning makes your quarantine time useful?
5. Do you believe that it is better to improve knowledge through E-learning than traditional education?
6. Do you think that face-to-face learning is important for practical learning?
7. Have you encountered any problems during E-learning?
8. Are you positive about E-learning?
9. Does E-learning broadens your knowledge?

10. Do you think web based learning is important for a student?

11. Which one do you like? Classroom Learning / Earning

12. Can education bring social change in India?

13. The device you like to use for E-learning. Laptop / Mobile / Desktop

14. Which application tool do you like for E-learning? Zoom / Google Meet, Google Classroom, WhatsApp, YouTube, Mail

Table:15 Overall analysis of answers related to E-learning

Question No.	Percentage of YES Response	Remark
1	76.57	Interested
2	79.14	Improvement in self study
3	70	Satisfied
4	78	E-learning bring Social change
5	48	Improving Knowledge
6	80	Face To Face learning is more Important than E-learning for practical
7	28	Problems in E-learning
8	77.71	Positive Towards E-learning
9	73.71	E-learning increases knowledge comprehension
10	73.42	Web based learning is important for students
11	79.71	Priority to Classroom learning
12	10.28	E-learning can bring Social Change

- 76.57 percent of students are interested in E-learning.
- Most students (79.71 percent) prefer only classroom learning.
- Most students (70 percent) are satisfied with the mock test by Google Forms.

- 80 percent of the students agree that face-to-face learning is more important.

FINDINGS OF THE STUDY:

The findings of this study are based on the collection of primary data which shows its effect on E-learning.

- The findings revealed the contribution of E-learning's resources or facilities to students' performance.
- In our study, we found that there is a generally positive view of E-learning among students.
- But, many of them do not desire E-learning. They prefer only virtual learning such as face-to-face learning or traditional learning.
- This E-learning format has made inevitable choices in higher education for the future.

CONCLUSION:

The trend towards teaching and learning through E-learning is spreading widely. The online learning method is best suited for everyone. Depending on their availability and comfort, many people choose to learn at a convenient time. This enables the learner to access the updated content whenever he/she wants. It offers students a broad set of benefits. The study's findings reflect the impact of E-learning, students' interest in using learning resources, and their performance. To conclude, this study has shown that E-learning has become quite popular among students across the country especially due to, the lockdown period of the Covid-19 pandemic.

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