

Tools Used In Online Teaching and Learning through Lock-Down

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Available online at: <http://www.ijcert.org>

Received: 14/08/2020

Revised: 18/08/2020

Accepted: 29/08/2020

Published: 08/09/2020

Abstract:- Now-a-days, the whole world faced the pandemic situation due to spreading of the novel- corona virus (COVID-19) rapidly; in this situation Pakistan's government has imposed the lock-down in all provinces. As the pandemic situation increased throughout the world and the impact of this is also increase repaid. The impact of these pandemic situations is economy of the country, education of the country and increased the Poverty in the country. To reduce the impact of this pandemic situation on education, online education system was introduced. That's why government take the step towards of online classes of universities students to save the education without wasting time of students. Pakistan government also announce the channel for students to teach the students of 1st to 12th standards students from 8:00 AM to 6:00 PM at home without any difficulty. The main objective of research this is to find out the online tools used in teaching and learning process during lock-down. At the university level teachers in higher education institutes used different tools such as: Google class, Email, WhatsApp group, Facebook group, Zoom, MS Office 360, YouTube channel, Recorded PowerPoint presentation, laptop screen recorder and X-recorder for mobile screen to fulfil the task of online classes and also get the few percent of results from students.

Keywords: COVID-19, Lockdown, online tools, Students, Teachers, Teaching and learning.

open the higher institutes. Pakistan government also supports

1. Introduction

The spreading of the novel- corona virus (COVID-19) rapidly, the government of the country closed (government or private) schools, colleges and universities of all provinces for the temporary period. This is the difficult time for the educational institutions because in this semester how to conduct exam still not decided how to promote students. There is no another solution to control the virus and

everyone either finically or socially. Higher education institutes also conduct the surveys from students regarding challenges in education [1]. Lot of students in Sindh-Province belong to village feels very difficult for taking online classes because they have no suitable device to take class and fulfil activities of class on time. Those students not submit work on within time because of facing issues during lock-down, issues are: they have no laptop or computer, no high speed internet, few tools are not run on

villages, noisy environment, and also have responsibilities of home to take care of elders and younger sibling [1]. The teachers of higher educational institutes of Pakistan outlined those issues faced by students and continuously encouraging them for the variety of platform.

The teaching and learning process started from the March and officially announce in April 2020, but some universities start online classes only final year batch [2]. A few universities of Sindh circulate the circular this lockdown period is summer vacation due to Government of Sindh already announce publicly 01 March 2020 to 31 May 2020 as a summer vacation after that online classes start from June 2020. But Shaheed Benazir Bhutto University Shaheed Benazir Abad main campus and other two campuses Sanghar and Nousheroferoz started online classes of all batches from 6 April 2020. The structure of teaching and learning process started from online and teachers also adopt software's for teaching to provide better solution for students.

Contribution of the paper

This research study provides ideas regarding the education, when the pandemic situation is critical like Covid-19 throughout the world. This pandemic situation impact on daily life of the human beings, but from these, education is one and important of them. In this pandemic situation use of different online platforms to reduce the effect of the pandemic situation. In this study, various online tools/platforms are discussed.

Organization of the paper

This is based on the sections of Introduction, Literature Review, Methodology of Work, Results and Discussions, Conclusion and Future Scope and References. In Introduction section introduction regarding the research study is presented. In second section of Literature Review, brief discussion of current literature is discussed. Methodology of work is discussed in third section. This section is based on the data collection, Higher education Institutes Role of Teachers Role of Students and Online tools for Teaching. Results and Discussions are presented in section four. Conclusion of this research work is presented in section five.

2. Literature Review

Ramya and Variyar worked on the Lock-down impact on the educations. They reported that due to lock-

down almost all the educational activities are disturbed due to pandemic situation all over the world and closed all the academic activities. Due to this pandemic situation all academic activities introduced the Teaching learning Process and offered online classes to ensure the reduction in impact of lock-down throughout the country [1].

Teclehaimanot et al. worked on the case study of online class and analysed that in online process student as well as teachers faced many issues. Online study is only reduces the direct communication and barriers of un-education processed [2].

Mhlanga and Moloji did research in pandemic situation of COVID-19 and used 4IR online tools for the teaching and learning process. Due to this worst situation throughout the world this online process gives or to fill the vacuum of education between the peoples [3].

As the pandemic situation increased throughout the world and the impact of this is also increase repaid. The impact of these pandemic situations is economy of the country, education of the country and increased the Poverty in the country. To reduce the impact of this pandemic situation on education, online education system was introduced. In this system many online tools (Google class, Email, WhatsApp group, Facebook group, Zoom, MS Office 360, YouTube channel, Recorded PowerPoint presentation, laptop screen recorder Xrecorder and twitter) were used [4-7].

Priya and Lyyer reported in their research that now-a-days technologies are increased in rapid way, so that the use of technology in the education is more beneficial in teaching learning system. For this purpose authors used Augmented Reality tool in their research for different subjects for the understanding of the children. Authors concluded from their research that the understanding levels of children/students have been increased by using teaching learning system (Augmented Reality tool) [6].

Charyulu et al. worked on the tools used in teaching field. Authors reported that the field of computer science / information technology in now used in various fields, but the used of this field in education is also increased. As the use of tutor tools in learning of language gives better results and also provides easiness to the students as well as different users [7].

3. Methodology of Work

This research methodology depends on data, higher education institutes, Teachers, Students and online tools for teaching as shown in Figure 1.

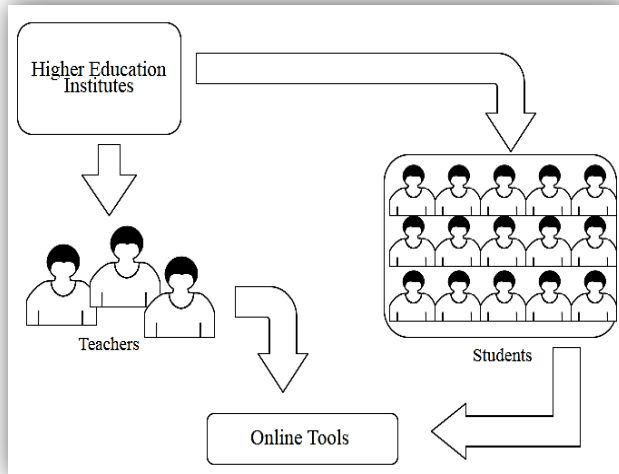


Figure 1. Research Methodology

3.1 Data Collection

For this research study data was taken from variety of resources, Newspapers, News Television channels, social media and Online Teaching.

3.2 Higher Education Institutes

In this pandemic situation education websites of are plays an important role for the students as well as for teachers [8-10]. In Pakistan government also announce the channel for students to teach the students of 1st to 12th standards students from 8:00 AM to 6:00 PM at home without any difficulty. Higher education institutes come under in higher education commission (HEC Pakistan). HEC Pakistan announces to universities take online classes and used available resources for teaching and learning process. Almost all universities started online classes in all provinces. Few universities started online classes only final year batch of undergraduate, few started postgraduate classes, few were used this period as summer vacation. Still so many conspiracies created in the period of lock-down.

3.3 Role of Teachers

Teachers started preparation of lectures. Teachers take own responsibility with low resources in lockdown. Adopt variety of software's and also train by self. To provide

better knowledge to students, they must gain and utilize in future.

3.4 Role Students

Student's age group of 18 to 30 years of undergraduate and postgraduate of universities take online classes to complete the semester lecture without any loss of students. Students of universities belong to different region of country to complete the higher degree.

3.5 Online Tools for Teaching

There are a variety of tools available for online teaching and learning process, some of the paid tools are few features of tool and some of the unpaid tool [11-12]. There are multiple tool used in higher education institutes such as: Google class, Email, WhatsApp group, Facebook group, Zoom, MS Office 360, YouTube channel, Recorded PowerPoint presentation, laptop screen recorder and Xrecorder for mobile screen to deliver the lecture of students and perform different activities by using those tools.

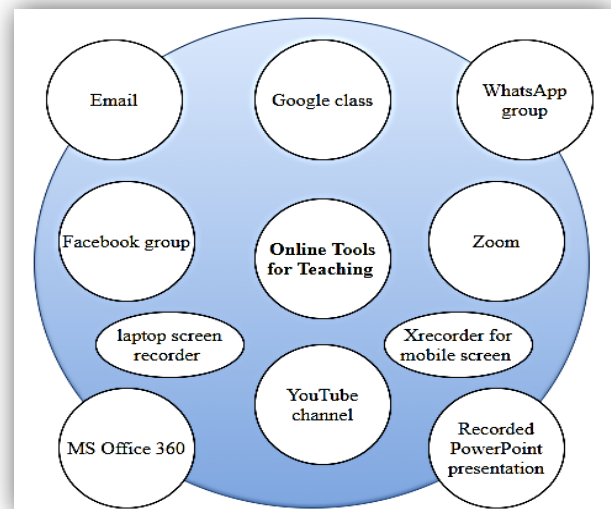


Figure 2: Online Tools

4. Results and Discussion

Due to this serious and critical situation of lockdown conditions throughout the world, its effects on all organizations and especially on educations. During this situation majority of educational institutions moved towards online systems. This condition also creates in Pakistan and Educational Institutions moving towards online system. In online system many issues were faced by students as well as by the teachers as described in Table 1 and Table 2.

Table 1. Summary of Issues Faced By Teachers

Teachers Faced by Issues in online Mode	
S.NO	Issues
1.	High Speed Internet
2.	Interaction Between students and teachers
3.	Communication Gap
5.	Background was noisy
6.	Some teachers Kids do not give permission to deliver lecture on time
7.	Family issues during lock-down
8.	Severely effects on research
9.	Electricity issues in lower areas of city
10.	Most of the time do not get response in online mode

Table 2. Summary of Issues Faced by Students

Students Faced by Issues in online Mode	
S.NO	Issues
1.	High Speed Internet
2.	Interaction Between students and teachers
3.	Communication Gap
5.	Background was noisy
6.	Most of the students live in villages so Signal issues
7.	Family issues during lock-down
8.	Lecture Understanding Issues (Focus not developed)
9.	Electricity issues in lower areas of city
10.	They feel tired by using devices for every lecture

5. Conclusion and Future Scope

In this research focuses on online teaching tools for teachers and students to easily learn and understand lecture by online mode during the period of lockdown. This situation suddenly happen world widely, there is no any other solution of virus with lockdown. During this period higher institutes teachers more used efforts for betterment of education and deliver lectures by using different tools to fulfil the activities of class by online mode. Currently, universities take surveys and get idea from students and teachers to take online assessment of exam and promote to students in next semester on the basis of online performance but still not decided. In future work, in this research has lot

of work has been done in different area of fields and impacts.

6. Acknowledgement

The authors would like to extend their whole hearted gratitude to the editors of the journal and the unknown reviewers for their valuable suggestions to the betterment of this article.

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