Impact Of Cloud Computing In Broadening The Horizon Of Students' Learning Through Online During Covid19

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ABSTRACT

The digital age has revolutionized all over the world and the learning process has become totally digitalized through cloud computing. The students' learning has been broadened using various online techniques and platforms with the help of ubiquitous computing technology. Online classroom and multimedia teaching make the students feel more comfortable and contented. Technology plays an essential role in the educational environment and numerous social media platforms and online tools have been focused towards multidimensional usage of technology in broadening the perspectives of language learning. Online tools have also been involved in the enhancement of students' language learning skills, particularly LSRW skills. The present paper discusses on the impact of cloud computing among the students who attend online classes using technology and technical tools.

Keywords: cloud computing, learning, online, students, learning

INTRODUCTION

With the introduction of online educational services where students can learn from anywhere with the help of technology, cloud computing takes the right place among the young learners. Online teaching and learning has been very much enhanced with the help of mobile applications and recent updated computer software's, which facilitate the students to learn without much technical hitches. Technology has made a tutor, who is presenting materials and feedbacks on an individual basis, and is allowing the students to proceed at their own pace. The recent technologies offer number of platforms for the students to create a life beyond their classroom. Covid19 has resulted in shutting of all education centres around the world and this results in a drastic change in the field of education with the distinctive feature of e-learning, whereby teaching is undertaken remotely and on digital platforms. Even before the pandemic situation, there were online teaching and learning methods followed by few schools and colleges, which have now become mandatory. All these methods turn into more comfortable for the students as well as the faculty, offering flexible timings and informal environment that makes the learner more practical and user-friendly towards technology. Due to the unexpected scenario in the global level, several innovative skills and technologies are enabled to achieve these changes Students are now developing learning skills anywhere at any time. This is a study on the impact of online tools such as Google classroom, Microsoft Teams and Zoom apps in teaching-learning process during this pandemic situation.

CLOUD COMPUTING AND ONLINE TEACHING

Cloud computing provides students as well as teachers with easy and free access to various cloud applications and services for informal and formal use in the education zone. It provides greater mobility and flexibility when it comes to the utilization of resources and creates a learning environment. By the way, Cloud computing helps to save data in colleges and schools and ensures all information is kept safe. Security measures have been taken and the users find it easy to navigate. Technology provides an essential role for the educators to create a learners centred environment with enhanced online applications. The integration of technology into classroom provides the students and teachers with a limitless amount of educational resources that transform the learning into creativity, collaboration, innovation and also helps the learners in their critical thinking. The integration of technology in classroom is not an easy task and it needs a thorough analysis of the curriculum and critical examination pedagogy. Teachers need to be flexible to this reality as they are trying different tools and

assessments with the students' learning. As they carry out technology and computing, the teachers should determine the effective tools to be used and how the learners should use them to acquire their creativity, collaboration and patience. The use of technology in the online setting made learning personalize and it has significantly increased the students' involvement in two dimensions: it broadens the number of students' participation and it promotes their individual activities in learning process. No doubt, it helps out to encourage their flexibility, adaptation and fastens the individual growth and development.

LITERATURE REVIEW

There have been numerous studies and experiments have been conducted to show the positive relationship between the uses of technology in the academic achievements. Doing assignments or assessment with the use of online tools is also a form of learning practise (Wolsey, Smetana & Grisham, 2015). Mercy Gnana Gandhi (2017) states "A thorough understanding of technology enhanced learning process seems indispensable for teachers and learners in the current context". Mercy Gnana Gandhi (2017) says without any change a change cannot be brought in the teaching methodology. Garima Sharma (2010) says that advanced information technologies such as virtual reality, visualization, digital modelling is one on one tutoring system which improves the teaching and learning of a particular concept by translation into real world context and to present customized training and individualized evaluation. Cloud computing can be used in various activity in day to day life, it is also includes in education. It provide the educators and the learners to access various applications and services in the cloud which can be used in education as formal and informal method. It allows for greater flexibility and mobility in the use of resources for teaching and learning (Elena Krelija Kurelovic, Jasminka Tomljanovic, Sabina Rako, 2013). Mohammed W.Nofan, Amar A. Sakran (2016) states that cloud computing is one of the current new technology. That had a significant impact on teaching and learning environment. Hethesia, Mercy Gnana Gandhi (2020) says advanced and change in the method of teaching-learning process has shown an increase retention of information and makes the students get skilled. Jesinth Flowerns, Mercy Gnana Gandhi (2020) states that technology helps to connect people, students, teachers and the software developers. Technology evolves a faster and intelligent way of learning and teaching method. z Merja Merilainen,

Maarika Piis Panen (2018) says that the learning environment of virtual courses are rather information channels built around technology than virtual learning environment based on the methods that enhance and enable authentic learning.

Background

Technology was seen to be the medium of delivering instructional material to the learners. The COVID 19 has made to close all the learning centres around the world. As a result of this solution there is a drastic change in the teaching and learning process. It has made a rise in the digital platforms, all over the world the students were out of classrooms. It has resulted into e-learning method whereas the instructions is embraced remotely on the computerized stage. The digital age has made the world with an enthusiasm for a new proficiencies to happen around the informational condition. For the educators the difficulties become more recognizing to incorporate the new practise of adding technology into classroom and to customary type of learning method. Online teaching has become a new classroom in every house. COVID 19 pandemic has made the online teaching as an essential need for this situation. To make the process of learning and teaching as worthful modern technologies were brought into it like 3D videos and virtual reality. By doing so people can develop a good relationship with technologies.

Scope

As the world moves towards modernism the education system also tends to move towards the modern system of teaching with technology which is more likely to be attentive, which helps to complete the learners task with interest and to learn simultaneously. The COVID 19 pandemic had significantly changed the system in today's world, which is a critical determinant of the country's economic future. This situation has transformed the centuries of teaching method into techno- oriented teaching and learning method. A multi- pronged strategy is needed to manage the pandemic crisis to build strong educational system in long term. One of the immediate measure as an essential source in education the open- source digital learning solution should be managed with the help of software's to conduct online teaching. Teaching is enabling ubiquitous access and personalization of education even in the remote area of the country. It is important to reconsider the current delivery and pedagogical methods in the education system with the help of e- learning modes to build a unified learning system. Most of the educators believe that the digital content will replace the textbooks in the

future coming years and there are more remarkable technologies on the way. The educators' developers have created an educational softwares that present reading materials based on students' compression level. Educational leaders recognize that learning demands are going through a process of transformation. As a result, the educational content and developers are shifting their focus toward the need for learning in the future. Technology is in high demand to improve learning outcome and ensures everyone can get a quality education.

ONLINE APPLICATIONS USED FOR ONLINE TEACHING

Google Classroom
Google classroom is a helpful application for the learners and teachers to create and organize the study area and also helps in the assessment of the students. It was created by the Google with the help of educators around the country to create a classroom for the teachers and learners to organize their classroom with the help of technology. It helps the teachers to conduct assessments and their assignments from the students, it also helps to circulate the study materials to the students and it helps to collect feedback from the students about the session they gone through. The main function of the tool is to share documents between the students and the teachers.

Zoom
Zoom is an online communicative tool which helps in the mode of conducting online meetings, trainings and conferences. This tool is inbuilt with a chatting option which helps the participants to raise their quarries in the chatting session without disturbing the other participants. This tool is easy to access by all the participants. This software is used as a multipurpose like teleconferencing, telecommunicating, distance education and also for social relations. Even though this tool was invented before the pandemic situation the usage of this tool increased during this quarantine period because of this COVID 19 pandemic situation.
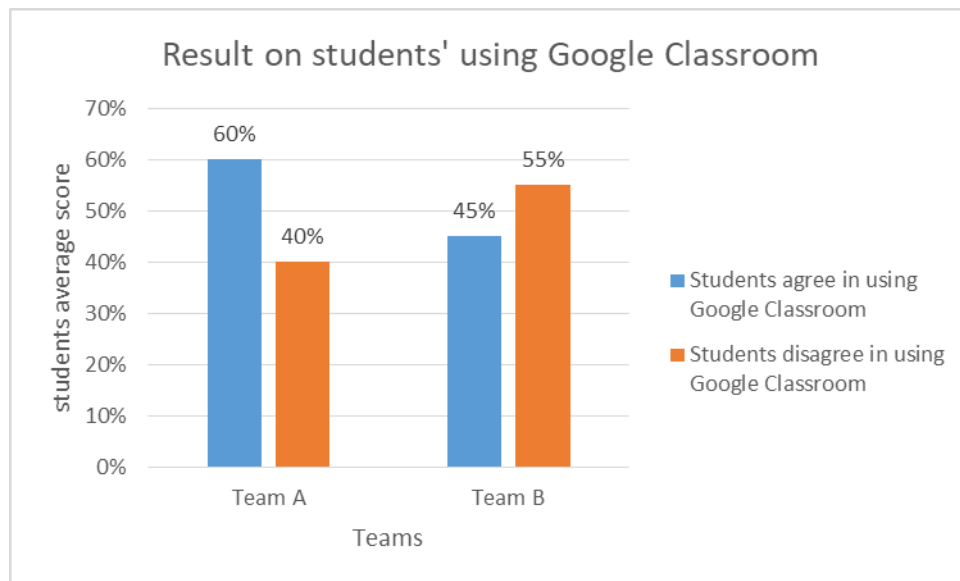
Microsoft Teams
Microsoft teams is a unified collaborative communication platform that combines present workplace chat, video meeting and file storage. It is available in many languages. Teams are allowed in group or in teams to join through a specific URL sent by the team administrator. Teams for education allows the teachers to set up a specific classes, professional learning communities and for staff members. Within a team, the members can set up a channel. It allows the team members to communicate without email or group SMS in the channel. Connectors are third party service where they can submit the information to the channel. Connectors are form Facebook page, twitter and Bing News.

Research Methodology
This paper highlights the role of various online tools which helped the students in their teaching and learning method during this pandemic situation. To, prove this an experimental study was conducted with two sets of students one team has twenty students and the other team has another twenty students. This experiment was conducted among the first year polytechnic students and they were made to experience the three online teaching tools and a feedback was collected from the students to find out which tool is best in the method of online teaching. The first set of students were named as Team A and the other set of students were named as Team B. During this online teaching method both the teams were introduced and made familiar with the online tools and at last from both the teams feedback was collected about the online tools and their response were recorded.

Table: 1 Students' score using Google classroom

Teams	Students' using Google Classroom	
	agree with the tool	disagree with the tool
Team A	60%	40%
Team B	45%	55%

Fig: 1: Comparison of students' score using Google Classroom

Table: 2 Students' score using zoom

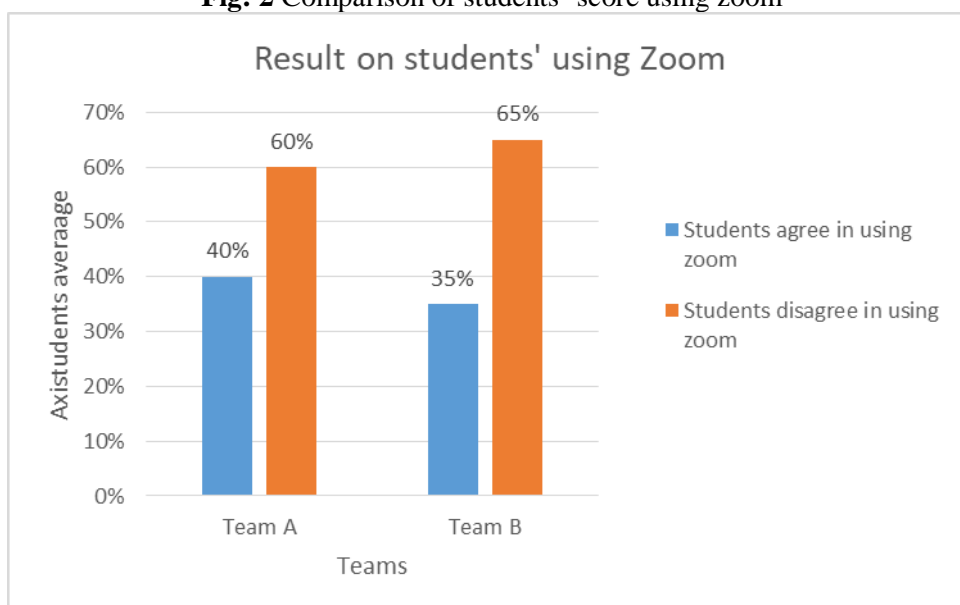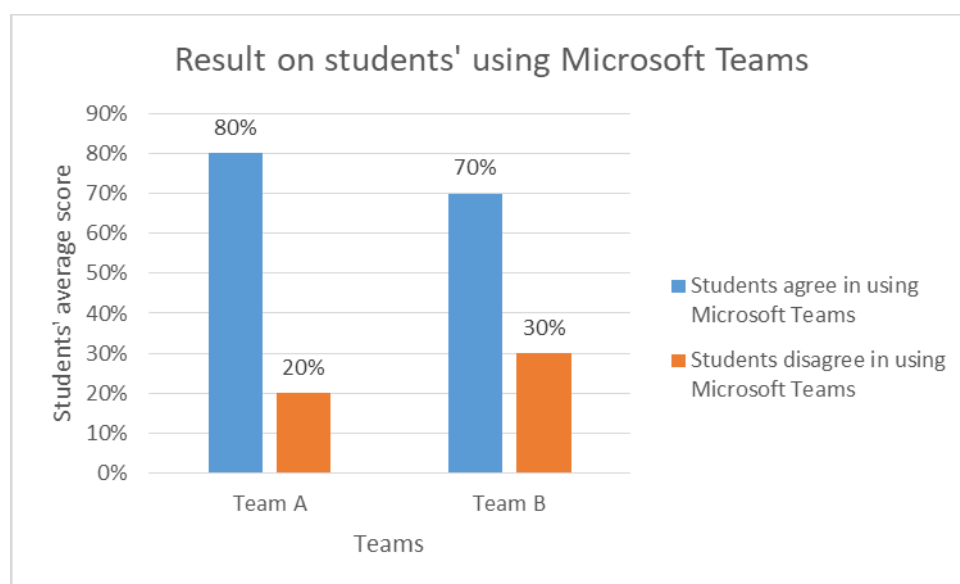| Teams	Students' using zoom	
	agree with the tool	disagree with the tool
Team A	40%	60%
Team B	55%	45%

Fig: 2 Comparison of students' score using zoom

Table: 3 Students' score using Microsoft Teams

Teams	Students' using Microsoft Teams	
	Agree with the tool	Disagree with the tool
Team A	80%	20%
Team B	70%	30%

Fig: 3 Comparison of students' score using Microsoft Teams

The above figures shows the average marks given by the students in team A and B. Some students have given high percentage while others have given low percentage. This is because majority of the 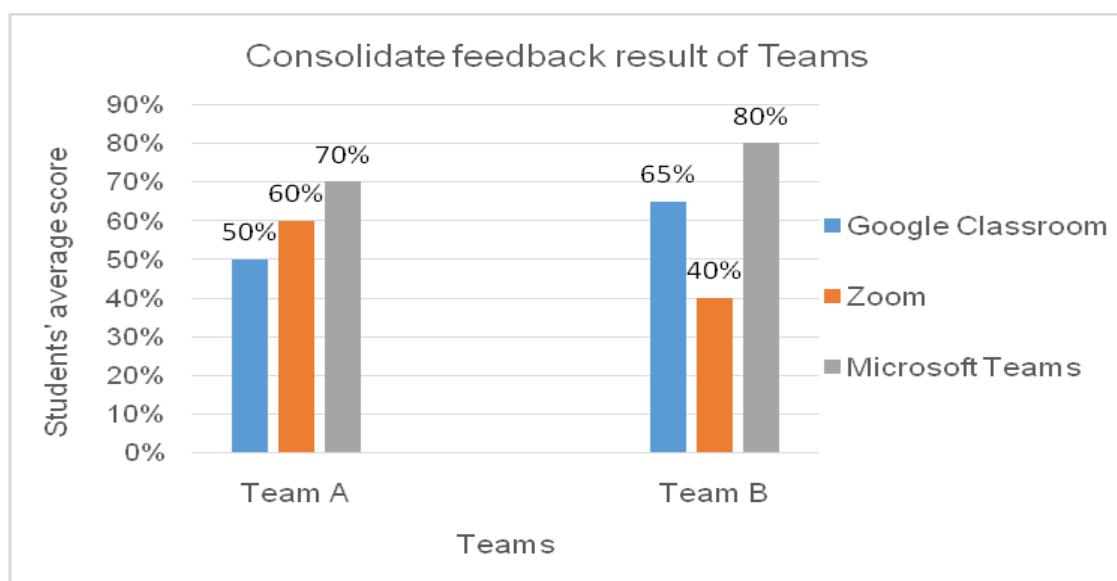students are interested in giving response over particular online tool. Based on an experimental study and the usage of online tools a survey was conducted to both the team of students. The feedback questionnaires consist of ten statements.

S.NO	Statement
1	This too helps in organizing and delivering the content without any interruption.
2	The tool enhance a good rapport between the learners and teachers.
3	Good clarity of audio and video can be seen.
4	The device can be easily accessible.
5	This digital platform satisfies the level of one's expectation.
6	A particular tool for secured files and data's can be adapted.

7	I find this tool is the best guideline for enhancing my skills.
8	This online tool is best known to me.
9	This tool is found convenient in submitting assignments.
10	This tool can be suggested for better communication.

Table: 4 Feedback result from students'

Teams	Students' Feedback		
	Google Classroom	Zoom	Microsoft Teams
Team A	50%	60%	70%
Team B	65%	40%	80%

Fig:4 Consolidate feedback result (Team A & Team B)

RESULT AND DISCUSSION

The result of this shows that the students are very much interested and more involved in the online language learning method. The analysis were made with the help of feedback with the students and identifies that students find more comfortable with Microsoft Teams rather than other applications. Though, all other applications were used for the students in teaching and learning method, this particular Microsoft Teams were more flexible for the students to get interacted with the teachers. This application helped the students to perform well and helped to finish their assessments when compared with other applications. All other applications are unique in their way of developing the techno oriented classrooms.

FINDINGS

With the help of feedback it is found that Microsoft teams severs as a great platform for the students in learning process through online. It helped the students to have audio and video method of teaching and also it helped the teacher to make assessments with the students it serves as an interactive application with the teachers and students. All other applications also provides a great

platform for learning through online and helped to take the classroom teaching to the next level. This particular Microsoft teams helped the students to be more interactive and it was at their expected level of interest in learning and teaching method.

CONCLUSION

It is evident that technology took an important role in the development of classroom and helped to take the traditional classroom to next level in the field of education. Technology provides a comfort zone for the students in the process of language learning and also had a great effect on students with the use of online teaching applications. Though the traditional method of classroom plays an important role in the field of education, during this pandemic situation all over the world the internet technology has made a unique way in the field of education and also become centre of attraction for the students. When the students are taught with the help of technology, it attracts them and made them free, comfortable and supports them in their process of learning. It is obviously found that Microsoft teams is the best application which mainly focused on the interest and involvement of the students. It really made a crucial effect on the students' performance and involvement of learning during this pandemic situation and also made it forever.

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