REVIEW ON: ICT TOOLS FOR ONLINE TEACHING QUALITY IMPROVEMENT

Prof. Avanti Paranjape
Department Of Cosmetic Technology
Kamla Nehru Mahavidyalaya
Nagpur

Abstract:As '2019 novel coronavirus' disease spreads all over the world and created lockdown all over the world. Due to this pandemic situation, all fields got affected. As a part of this schools and colleges closed and teaching learning process stopped. Teachers were challenged with the need to adapt the online teaching. But ICT tools came to support teachers and students. Classrooms replaced by the online classes and education system got digital organizer. Nowadays there are different apps available through which teachers and students are reaching to each other and completing their work. From these, nine tools which are useful for online classes are discussed in this research work. Due to these tools teaching-learning process become more easy.

The purpose of this review paper is to do literature study of different research papers available online, on ICT tools for teachers to improve the quality of teaching and to present them in a simple way to help teachers for making teaching learning process more effective in today's pandemic situation. These ICT tools can not only be used for secondary education learners but also for higher education learners. ICT may also be useful for enhancing other skills such as listening, speaking, reading and writing.

Keywords: ITC, ICT tools, Online teaching, Teachers quality improvement

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Introduction:

All world is facing pandemic situation. All fields are affected due to Covid 19. From all the affected field education field faced severe problem. However ICT is very much helpful for teachers and students, in this situation. Due to these tools teaching-learning process become more easy. In education, ICT play vital roles in simplifying online teaching and learning. They have altered classroom communication methods and improved instruction strategies. Also, ICTs have made teaching and learning interactive and collective. ICT appears as a 'bridge' to break the distance between teachers and students and continue the teaching learning process. In case of distance teaching, teachers can use ICT through video conference to enable them teach or monitor the students learning process(1).

Although the conversion to online teaching was unexpected and rapid due to COVID-19, it took place in a wider ICT alteration process, in educational systems. As reported in studies that digital technologies may enable new opportunities for teaching and learning, and

the use of ICT has become increasingly popular in schools and colleges in recent decades (2,3,4).

Combination of Information, Communication and Technology (ICT) in education refers to the use of computer-based communication that integrates into daily classroom instructional process(5). While, the aim of ICT integration is to enhance the quality, accessibility and cost-efficiency of the delivery of instruction to students, it also refers to benefits from networking the learning communities to face the challenges of current situation(6). Process of employment of ICT is not a single step, but it is continuing and nonstop steps that fully support teaching and learning and information resources(7).

As reported in studies, computers and technology does not acts as a substituting tools for quality teachers but instead they are considered as an additional supplements needed for the better teaching and learning. The need for ICT integration in education is essential, because with the help of technology, teaching and learning can not only happen in the school or college environment, but also can happen even if teachers and students are physically in distance(8).

ICT in teaching :(9,10)

ICT can be valuable for a teacher in the following ways:

- It is obliging in the quality development of the teachers. A teacher can learn various skills with the help of ICT. Teacher can do various certification programs conducted by the famous educational institutions like Cambridge University, British Council etc. These programs helps in improving teachers ability to teach their subject content easy and more understandable.
- A teacher can rise their area of knowledge with the help of e-journals, e-magazines and e-library that can be achieved only through the use of ICT. Teachers can also partake in discussions and conferences with the experts of their subject to improve their knowledge and skills through audio and video conferencing.
- ICT helps a teacher to learn new methods of teaching. Teacher can work with the students on various project and assignments. It also helps teacher in providing teaching contents.
- Teacher may participate in various in-service training programs and workshops which are important for teachers proficient development with the help of ICT.
- ICT helps a teacher to monitor their students about the learning materials available on internet, e-books, e-journals, e-magazines and social sites like linkedin which are useful in better learning of subject skills.
- ICT also helps teacher framing curriculum of subjects. They can study curriculums of different countries to study there advantages and disadvantages, sociological and psychological matters related to learners. All these things help teachers in framing a curriculum that leads to achieve the aims and objectives of subject of teaching.

ICT Tools(10,11):

ICT tools can be used in education not only to increase student learning but also to improve teaching quality of teachers.

As per records there are different ICT Tools available which are used for online teaching learning process, from these nine tools which are useful for online classes are discussed in this research work. These tools help learners to obtain skills required for smooth communication. These tools are useful for teachers as well as students.

- **Platforms for online education**: There are varied platforms available for online education. As recorded, by using theses platforms, online classes can be taken, videos can be uploaded and recorded videos can be send to the students. Hence, these platforms are useful for the students as well as teachers. Eg.Swayam, Webex, etc.
- **Use of apps**: Different apps are available for online education. These apps are useful for students and teachers to reach. Eg. Zoom, Google meet, Webex etc.
- **Use of different e-content**: Various e-journals, e-magazines are available for study.
- **Socrative**: It help teachers to collect data from their students via smartphones, laptops and tablets thus making it is a smart student response system. It can be used as an assessment tool that helps teachers to test the knowledge of the students in the classroom via quizzes,etc. It provides immediate results with numerous report generation formats (Whole Class Excel, Individual Student PDFs, Question Specific PDF) to examine student's performance on a particular topic (12,13).
- **Google classrooms/My Class Notes**: These are the virtual online classroom for students and teachers. Students can join classes from anywhere in the world using google or any web browser. They can take notes, submit assignments, view their schedule,etc. This tool can be used only for study material sharing purpose (12,14).
- **Slide Share**: It is a website that enables teachers to upload their content either privately or publicly. Presentations, documents and videos in PowerPoint, Word, PDF or Open Document in various format that can be used for uploading the content (12,15).
- **Edmodo**: The Edmodo is another learning app which is very teacher-friendly tool that enables them to share content, distribute quizzes, assignments, and manage communication with students, colleagues, and parents. The students and parents can join Edmodo only if the teacher invites(12,16).
- **Flexi Quiz**: It is an online tool that can be used to test the understanding of the students by creating, sharing, grading and analyzing quizzes, tests and assessments for a particular topic. A time limit can be set on any particular question or on the whole quiz. Quizzes can be imported from the spreadsheet (12,17).
- **Animoto:** It is a video creation tool that crops video from photos, video clips, and music which can be converted into video slideshows and customized web-based presentations. Its main feature is that it is a cloud-based application. It is available in both online and mobile platforms and offered for free and paid upgraded accounts (12,18).

Challenges in using ICT in teaching and learning:

Integrating ICT into teaching and learning is a complex process and one that may encounter a number of difficulties.(20,21) The key challenges that have been recognized in the literature research regarding teacher's use of ICT tools in classroom.(22,23) Limited accessibility and network connection, Schools and Colleges with limited technical support, Lack of effective training, Limited time, etc.(24,25)

Conclusion:

Use of ICT in today's state is very much supportive. To overcome the problem of pandemic situation, when teachers and students are physically in distance, all tools are very much helpful. Hence, by using these tools teachers may improve in their teaching methodology and make learning easy for students in this pandemic situation.

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