

# ICT devices and their impact on teaching, learning & evaluation process

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## **Abstract**

In today's scenario, our education sector is facing the challenges that the process of learning must continue with all Covid protocols. To overcome these teaching, learning and evaluation problems ICT plays a key role. Using different web conferencing software's like Zoom meetings, Microsoft team, Google meet, Cisco WebEx and many more. We can communicateour thoughts and ideaswith students and professionals effortlessly, no matter where they are. Learning becomes so convenient, comfortable and user friendly. With mobile applications like Coursera, edx and YouTube. Enormous databases in the form of videos, audios and PDF are available for learners, anyone can access it in their convenient time and place. Even the process of evaluation also becomes easier and simpler using google forms, zoho, type-forms and similar kinds of applications.

To tack advantages of ICT software to teach, learn or

evaluate we need to have some important devices that are necessary to know how to operate and use them. This study highlights these devices and helps to examine impact of it on teaching, learning and evaluation.

**Key words:**ICT tools, Teaching and learning TechnologyAdvantages&Disadvantages

## Introduction

Nowadays the online learning process has become more familiar to all of us. Use of computer and the computeroriented devices increased. There are several ICT tools we can use in our day-to-day life and they have much impactful on our learning. We can observe that there is increase into the use of those devices. From last two years because of the lockdown situation that arises due to Covid-19, most of the peoples were got affected to the covid, in such pandemic there is need to maintain safe distance. As we know that there are many software's which were used for the interface between the employees, teachersand students. As the days goes on the uses of the information & communication technology (ICT) increased since last few years. Due to this pandemic people gets aware to the health to maintain safe distance, the school's offices were forcefully shut downs. There is a huge loss of the students as well as the industries. The education industry also faced many challenges in this pandemic, comes with the use of ICT for the teaching learning & evaluation process. Today many devices like mics, cameras, tabs, Bluetooth, desktops, laptops, pen tabs, etc. which were used widely into the teaching learning process, many software's also found beneficial in the field of teaching learning and evaluation.

The present paper gives the detailed information about the tools used for the betterment in the field of education. Commuters, educators and businesses across the world have experienced a drastic shift from physical to digital spaces. While there might be some problems associated with this pivot, technology has done a brilliant job providing the tools required to maintain a high level of efficiency and remote collaboration. The educators and the students nowadays use the teaching learning applications which are iOS or as android based which are user friendly such as google meet, google classrooms, zoom app, Coursera, Khan Academy, edX, Future Learn, Open Learn, Solo Learn, Codeacademy, Udemy etc. also to produce content, transmission of it, there is the need for the devices which are available easily and user friendly. As the result of these devices and software's, peoples were cautious about the use of ICT. The impact is found to be very crucial that students and teachers were able to teach and learn on online platform at their place, what they have is some gadgets like, laptop, mobile and the internet connection. There are few advantages of the ICT such as-easy to access information, greater interest in learning, increased retention of information, robust information storage, better presentation of information, teaching is made more interactive, knowledge share easier, it can make teaching more effective, and organization of matter can beeasily done.

#### Model of teaching & learning through ICT

- 1. Finding out & considering ICT tools
- 2. Learning the application method of ICT tools
- 3. Understanding the manner and time of applying ICT tools
- 4. Finding specialties in ICT application

Following are the few devices which were used for the teaching, learning & evaluation process.

## 1. Webcam

Not all computers come with quality webcams and some more affordable devices lack this hardware entirely. A basic webcam is also a great option for those looking to enhance their e-learning experience.

## 2. Headphone

Learning at home can be distracting for students and

teachers alike. Headphones are a great option for individuals who want to block outside distractions and tune in for the lesson at hand.

# 3. Bluetooth Speakers

Computers are not generally designed with top-notch speakers onboard. At higher volumes, these factory components can pop and crackle, greatly diminishing the sound quality. In an online lesson, clean crisp audio is imperative. A Bluetooth speaker is a great option for those looking to turn up the volume and dial in for a lesson. During independent learning, students can also use the speaker to play their favorite study playlists.

# 4. Microphones

A dedicated external microphone is another easy way to give your virtual collaboration a boost.

#### 5. USB data hub

For an optimal online learning experience, many students need to leverage numerous devices, often at the same time. Many newer laptops have few USB ports to help with external recharges. Moreover, running all these devices from the laptop can quickly drain its battery midway through the school day. For this reasoning and others, a dedicated external USB charging hub is a great way to keep all your devices fully charged without burying your laptop under a mountain of cables and dongles.

#### 6. Wi-Fi router

A child's remote education experience is wholly hinged to a household's Wi-Fi connection. Perpetually being booted from a lesson can be a drag on engagement and information retention. For some households, upgrading their home network may be the necessary first step to making online learning better.

#### 7. Whiteboard

Any sketch app can technically be turned into a digital whiteboard if you must sketch out many ideas for your students.

As if you have been on zoom, Webex or google meet for remote meetings, you may already be aware that those apps offer a simple board that on which you can draw anything during the meetings. However, there are many features that helps to highlight something in the presentation or make remark or write anything that helps to giving you the best digital white boarding experience.we can easily attach files, images, and presentation etc. using whiteboard for easy reference.

## 8. CD/DVD drive

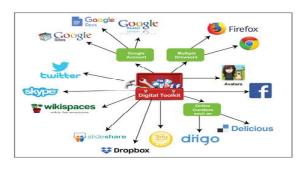
One of the biggest challenges when teaching online is giving yourself the opportunity to do everything that you would do if it were a face-to-face classroom. You won't even think of half these things until you want to do them, but the one thing that I've found needs even more preparation than in traditional contexts is how to use listening material. But using these drivers we can port files easily.

# 9. Projectors.

Since last many decades the use of ICT has been increased in education field, as the use of projector founds to be too much beneficial for the interface and in the teaching, learning process so the learning process becomes easier.

# 10. Monitors/ HD screens.

The screens which were used for the teaching and learning process could be found beneficial for the visual study which can directly impact on to the memory of students.



# ICT application pattern in learning cycle

According to the mentioned model for technology applications in learning cycle. It has been assumed in this pattern that for completion of required learning cycle all learners are obliged to use computer. This is because of practical and observable experiences are necessary for further learning purposes. In addition, the professors have an excellent role in learning of learners as well.

# Advantages of ICT.

In education, use of ICT has become imperative to improve the efficiency and effectiveness at all levels and in both formal and non-formal settings. Education even at school stage must provide computer instruction. Profound technical knowledge and positive attitude towards this technology are the essential prerequisites for the successful citizens of the coming decades.

#### Some of them are listed below:

- 1. These devices are Cost-efficient
- 2. ICT Provide the facility for easy student management
- 3. Using ICT direct classroom teaching can engage
- 4. Improved modes of communication
- 5. Eco-friendly-Eliminate the usage of paper
- 6. Direct classroom teaching
- 7. Minimize cost and saves time
- 8. Improved data and information security
- 9. Web-based LMS tools link teachers, students, researchers, and scholars and education together.
- 10. Teachers can teach better with graphics, video and graphics.
- 11. Teachers can create interesting, well-designed and engaging classroom activities.
- 12. Provide better teaching and learning methods
- 13. To spread awareness about the social impact of technological change in education.

- 14. Promoting and improving the digital culture in universities, colleges, and schools.
- 15. Automated solutions to paper-based manual procedures and processes.

# **Disadvantages of ICT Tools**

There are various disadvantages of ICT Tools:

- 1. Unemployment
- 2. Lack of security/privacy
- Cyber bullying
- 4. Reliance on technology
- 5. Social media privacy issue
- 6. Preparation time

#### Conclusion

The entrance of ICT into educational field is a valuable chance for performing some modifications and innovations resulted into efficiency increase and more effects of education system. By recognizing any factors of betterment, the learning/teaching Education School Learner Coach Effective learning process and submission a conceptual model. We tried to explain all educational- training roles of ICT for further changes. ICT is a valuable chance for specialists and involved people in education and changes of teaching learning methods and educational goals.

Using any required hard devicesat the time of using ICT applications they result of different to researchers and students in all fields, finally any submission of a conceptual and applicable model needs proper tool to convey proper massage to the audience and make it possible to have a combination of ICT and education in better way. Since ICT provides greater opportunity for both teachers and students to adjust learning and teaching to individual needs, therefore, it is necessary to enhance the integration of ICT concept and anyone should aware about the use of above devices and apply it specially in School education.

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