

Information Communication Technology and Learning in the Era of Covid19 Pandemic

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ABSTRACT

Information Communication Technology is the infrastructure and components that enable modern thinking in the world. In education, ICT play vital roles in facilitating teaching and learning. ICT enabled teachers have transformed classroom communication methods and modified instruction strategies. Also, ICTs have made teaching and learning interactive and collaborative instead of the traditional teacher- talking and students listening approach. The development of ICT is seen as a better way of teaching and learning a certain language compared to the existing methods. In education, innovative learning, especially learning can be done by using the Internet to generate device-based learning. In this digital era, ICT use in the classroom is important for giving students opportunities to learn and apply the required 21st century skills. The present study is aimed on studying the impact of Information Communication Technology on education and teaching learning process, Society and enterprise.

KEYWORDS: ICT and Education, Teaching Learning Process

INTRODUCTION

In this era of Covid19 Pandemic, the world is moving towards a technologically-driven environment, various technological incorporations have been introduced in a max number of educational institutions. In this technology driven world, ICT is playing a crucial role possibly for all the

sectors including, economic sector, society, financial sector etc. Education sector is not an exceptional case to ICT. An ICT enable teacher teaches their students how they can integrate the use of pertinent ICT tools into their academic and daily living and for them to maximize their learning in ICT, teachers are continually looking for new technological means to teach students how to make their technology integrations easier in the long run. So, considering all these elements, the present study is conducted to evaluate the impact of ICT on education and teaching learning system in the era of Covid19 Pandemic.

REVIEW OF LITERATURE

Ghavifekr and Rosdy (2015) analyzed the perception of teacherstowards effectiveness of ICT integration to support teaching and learning process in classroom with the help of a survey questionnaire which was distributed randomly to the total of 101 teachers from 10 public secondary schoolsin Kuala Lumpur, Malaysia. The data for this quantitative research were analyzed for both descriptive andinferential statistic using SPSS (version 21) software. It was found in the results that ICT integration has a greateffectiveness for both teachers and the students. It wasalso found that professional development training programs for teachers also played a key role in enhancingstudents' quality learning. It was suggested that there is a need for consideration of other aspects of ICTintegration especially from management point of view in regard to strategic planning and policy making.

Chakraborty et.al. (2018) in a study tried to find out the effectiveness of ICT in Strengthening the process of Higher Education System in India. The study was conducted in various colleges and universities in West Bengal, India considering a sample of 386 respondents which have been gathered with the help of an organized survey and Five Point Likert scale was used to collect the data.The collected data was analyzed with the help of Exploratory Factor Analysis and Multiple Regression Analysis and it was found that the cost of ICT is one of the most influencing factors on effectiveness of ICT.

Pandey and Pandey (2020) conducted a study on exhaustive literature review on the use of ICT in teaching and learning in Indian scene. The study was confined to India (2010-2020) only to make this review focused in the Indian scenario only. A positive effect of the use of ICT in teaching and learning was revealed by the finding of the study. Further, it was also observed that use of ICT in developing countries like India is at lesser side as compare to developed countries.

RESEARCH METHODOLOGY

The present study is descriptive in nature. It is based on the secondary data collected from various reports published in different newspapers and websites. Further for the information collection, various journal articles have been considered. Following are the main objectives of the present study:

Objective of the study

1. To study about ICT in education.
2. To study about effect of Covid-19 on teaching learning process
3. To study about ICT's societal and economic impact

DISCUSSION AND FINDINGS

The following discussion is related with the justification of the objectives of the present study:

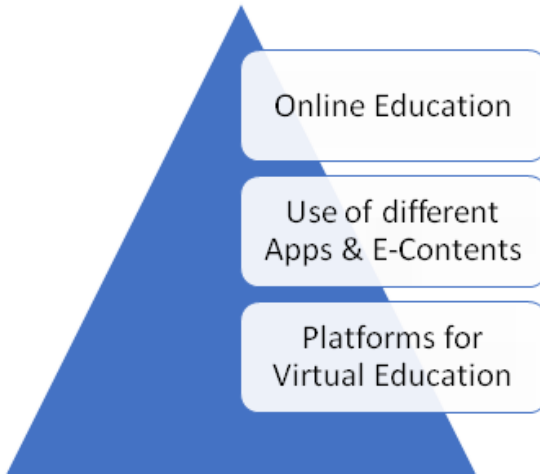
ICT and Education

In education, ICT play vital roles in facilitating teaching and learning. The event of ICT is seen as a far betterway of teaching and learning a particular language compared to the prevailing methods. In education, innovative learning, especially learning is often done by using the web to generate device-based learning ICT. In response to significant demand, many online learning platforms are offering free access to their services, including platforms like BYJU'S, a Bangalore-based educational technology and online tutoring firm founded in 2011, which is now the world's most highly valued edutech company. Since announcing free live classes on its Think and Learn app, BYJU's has seen a 200% increase within the number of latest students using its product, consistent with Mrinal Mohit, the company's Chief Operating Officer.

Is learning online as effective?

For those who do have access to the right technology, there is evidence that learning online can be more effective in a number of ways. Some researches show that on average, students retain 25-60% more material when learning online compared to only 8-10% in a classroom. This is mostly due to the students being able to learn faster online; e-learning requires 40-60% less time to learn than in a traditional classroom setting because students can learn at their own pace, going back and re-reading, skipping, or accelerating through concepts as they choose.

Effect of Covid-19 on Teaching-Learning Process:



1. **Online Education:** Due to Covid-19, there is no option without online education. As lockdown don't allows to open schools, colleges, so online education is only one option through which education can be continued.
2. **Use of apps & E-Content:** Different apps nowadays are used for online education. These apps are helpful for college and school students and teachers to succeed in such sort of apps also are used for meetings, online teaching learning process. Due to online education there's no deadline also as place restriction for learning. Anyone can learn from anywhere and at any time and different e-contents also are prepared for college and school students. These are helpful for them to complement their knowledge. E.g. Zoom, Jio Meet, Microsoft Teams, Google meet, Webex, YouTube, Google Classroom, Moodle etc.
3. **Platforms for online education:** There are different platforms available for online education. Through these platforms, online classes can be taken, videos can be uploaded, recorded videos can be sent. So, these platforms are helpful to the students as well as teachers. Eg. Swayam, Webex, Impartus, YouTube, Moodle etc.

ICT IN TEACHING-LEARNING:

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

1. It is helpful in the professional development of the teachers. A teacher can learn various language skills with the help of ICT. He can do various certification programs run by the famous educational institutions like Cambridge University, British Council etc. These programs help in enhancing his capacity to teach his subject content easy, economic and more understandable.
2. A teacher can increase his domain of knowledge with the help of e-journals, e-magazines and e-library that can be achieved only through the use of ICT. He can also participate in discussions and conferences with the experts of his subject teaching to improve his knowledge and skills through audio and video conferencing.
3. ICT helps a teacher to learn innovative methods of teaching. He can work with the students on various project and assignments. It also helps him in providing teaching contents, home works etc.
4. He may participate in various in-service training programs and workshops which are essential for his professional development with the help of ICT.
5. ICT helps a teacher to guide his students about the learning materials available on internet, e-books, e-journals, e-magazines and social sites like linked –in which are helpful in better learning of subject skills.
6. ICT also helps him framing curriculum of subjects. He can study curriculums of different countries to study their pros and cons, challenges as well as sociological and psychological issues related to learners. All these things help him in framing a curriculum that leads to achieve the aims and objectives of subject of teaching.

ICT can be useful for a student in the following ways:

1. Student can study through online resources. There are different resources through which it will be helpful for students to understand topic. Students can learn from their place and at any time.
2. Students can meet teachers online and get required knowledge about the subject.
3. Students can have no limit of time and place. In this way there are different apps through which teaching learning process is becoming easier. These apps help teachers and students to communicate with each other and get knowledge of particular subject.

4. Teachers are also learning different apps use for teaching and students are using for learning process. In this way ICT tools are helpful in this pandemic situation. These tools are helping teachers as well as students.

ICT'S SOCIETAL AND ECONOMIC IMPACT:

ICT is leveraged for economic, societal and interpersonal transactions and interactions. ICT has drastically changed how people work, communicate, learn and live. Moreover, ICT continues to revolutionize all parts of the human experience as first computers and now robots do many of the tasks once handled by humans. for instance, computers once answered phones and directed calls to the acceptable individuals to respond; now robots not only can answer the calls, but they will often more quickly and efficiently handle callers' requests for services. ICT's importance to economic development and business growth has been so monumental, in fact, that it's credited with introduction what many have labeled the Fourth technological revolution. This new era is usually termed the Digital Age.

THE SIGNIFICANCE OF ICT IN ENTERPRISES

For businesses, advances within ICT have brought a slew of cost savings, opportunities and conveniences. They vary from highly automated businesses processes that have cut costs, to the large data revolution where organizations are turning the vast trove of knowledge generated by ICT into insights that drive new products and services, to ICT-enabled transactions like internet shopping and telemedicine and social media that give customers more choices in how they shop, communicate and interact.

But ICT has also created problems and challenges to organizations and individuals alike -- also on society as an entire. The digitization of knowledge, the expanding use of high-speed internet and therefore the growing global network together have led to new levels of crime, where so-called bad actors can hatch electronically enabled schemes or illegally gain access to systems to steal money, property or private information or to disrupt systems that control critical infrastructure. ICT has also brought automation and robots that displace workers who are unable to transfer their skills to new positions. And ICT has allowed more and more people to limit their interactions with others, creating what some people fear may be a population that would lose a number of what makes it human.

CONCLUSION

Information Communication Technology plays a vital role in facilitating

teaching and learning. In the Pre Covid19 era, the role of ICT was increasing at a gradual rate but with the coming of this pandemic, the growth of ICT in various sectors of the society has been accelerated. It may be concluded here that Information Communication Technology is being utilized by the teachers in various educational institutional and other parts of the society aggressively in the era of Covid19 Pandemic.

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