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# How Information Technology (IT) Contributes to School Education Management?

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**Abstract** - Easy-to-access information for the students is the gift of technology. It also provides opportunities of accelerated learning and fun to practice what they learn. After pandemic of Covid-19, application of Information Technology has become not only popular but also indispensable to carry out the school education of the children. Its worldwide acceptance has been gradually increasing. Learning experience of students increases with proper implementation of Information Communication Technology (ICT) which also improves the quality of communication among teachers and parents along with students and improves the productivity of other teaching staff members.

**Keywords**-- Information Technology, School Education, Distance Learning, Covid-19

## I. INTRODUCTION

Quality improvement of education is ensured by effective application of Information Communication Technology (ICT). Starting from data storage to knowledge management and decision making, all are efficiently managed by proper implementation of ICT which can play an important role in management and administration in school education. Due to its gradually increasing capabilities to facilitate administrative activities ICT is becoming very much popular in schools. For the schools assimilation of Information Technology (IT) is also a big challenge. An IT assimilation framework (ITAF) in schools has been depicted by the scholars (Barta et.al, 1995). Learning experience of students increases with proper implementation of Information Communication Technology (ICT) which also improves the quality of communication among teachers and parents along with students and improves the productivity of other teaching staff members. IT plays an crucial role for exploring new subject areas and better understanding of much tough and difficult conceptual subject matters. Schools with the usage of information technology in educational management get many benefits and advantages. Simultaneously, IT is also applied for serving the purpose of controlling schools (Tatnall and Pitman, 2002).

## II. ROLE OF INFORMATION TECHNOLOGY (IT) DURING COVID-19 ERA IN SCHOOL EDUCATION: CROSS COUNTRY REFERENCE

In 2020, for the worldwide prevalence of Covid-19 pandemic there was a big shock in education system. All the schools became closed across the world and education became confined at homes. Consequently, many countries started to realize the importance of online teaching to face this huge challenge. Teaching learning method moved to online mode without anticipation and with acceleration. This was marked as a crucial time for considering education with proper application of technology. Teaching from distance became possible by adopting tools appropriate to facilitate synchronous and asynchronous communication with whole class. Digital technology in this regard helped a lot for the access to study material and conducting interactive sessions among groups of school children.

In Kazakhstan, print media and television broadcasting played active role under the instruction of state for increasing the process of access to learning with provision of resources. Provision of study material along with broadcasting television programmes and conducting interactive sessions supported the school children to experience learning in digital and effective mode (Bokayev et al., 2021). In a good number of studies, the correlation among the factors like parents' satisfaction with the quality of education, assessment of the competence of the teachers by parents, willingness and activities by government towards supporting learning at home during lockdown were found statistically significant. In Australia, teachers took initiative to engage the students in online interactions as they have found a lack of social interaction among students during lockdown which was a tremendous challenge for many of them. However exceptions were also observed. In some cases it was found that technology served to be enabling and constraining but not engaging (Ewing & Cooper, 2021).



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From a survey of higher secondary students from New Zealand it was identified that motivation as well as engagement in learning was also a key theme during pandemic (Yates et al., [2020](#)).

From three countries Libya, Palestine and Afghanistan, the middle school teachers who have gone through couple of challenges prior Covid-19, provided insight into how they have supported the students to continue their learning process when all schools were closed during pandemic (Khlaif et al., [2020](#)).

In a study in Germany it was observed that school leadership felt the need of creating a significant agenda to include the teachers in vocational schools. It was also found that reliable technological support and the competencies of the teachers for identification and implementation of digital teaching methods were fundamental requirements in vocational schools during Covid period (Delcker & Ifenthaler, [2020](#)).

A global survey of secondary teachers explored how teachers and institutions made them ready to go with emergency online teaching (Howard et al., [2020](#)). In some of Irish secondary schools, teachers expressed their belief towards implementation of technology in education and they have also stated that prior Covid-19, before close down of schools they highly recommended digital learning in addition with offline classes (Scully et al., [2021](#)).

Many studies from cross country experiences have shown how teachers of various schools have faced the challenge of pandemic in education and extended the hands of their support and to the students to continue their learning. Both from both developing countries and highly developed countries a good number of innovative examples were found where the pictures of how teachers rapidly adapted to teaching and supporting students beyond the classroom environment through digital technology during Covid situation are depicted (De Saxe et al., [2020](#)).

### III. IMPORTANCE OF INFORMATION TECHNOLOGY (IT) IN SCHOOL EDUCATION

The evolution of technology has benefitted the world in multiple ways. Along with enhancing the efficiency, it has brought about with it a transformation mechanism through which it had turned the whole world into a global village which helped the population under the sky to have easy access to information.

The education sector is not an exception to grab the technology in new normal era. The use of information technology in education has become more than just an option.

For effective learning, the education sector stakeholders have found ways of integrating the use of information technology in the everyday learning processes.

Importance of implementation of proper Information Technology (IT) in school education is discussed below.

#### *A. Access to the study material*

Students can easily access to multiple contents related to study material from the internet. They can get good references of the lessons which are taught in online classes. These e-content can be supplementary for students. World wide websites provide past examination papers of various schools. Revision guides and e-books are also available on the web which help the students to improve their knowledge base. Supply of computers and internet by educational institutions facilitates the whole process.

#### *B. Continuous learning*

Distance has no longer become a problem after application of IT in school education. Students can continue their learning without any interruption from anywhere of the world with the proper usage of information technology in education. Physical appearance of the students becomes not mandatory for submitting their assignments. As a result learning never stops even though they are not stepping into classrooms. Efficiency in school education has been increased in this way with implementation of IT.

#### *C. Knowledge sharing*

Students participating in online group discussions and interactive sessions can easily share their individual ideas of knowledge with the other students from anywhere of the world. Geographical barriers are removed. Classroom in online mode becomes a global platform for exchanging experiences among students and teachers. Application of information technology in education has basically made it possible. Cultural diversity across the students are being appreciated and students are growing up to be more tolerant towards creating the unified world.

### IV. CONCLUSION

In education industry Information Technology is a divine intervention. It offers countless benefits for the teachers, students and other staff members. If it is implemented properly, it can enhance the quality of learning and teaching and can improve the communication and productivity with efficiency of all who are the parts of the whole education industry.



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