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THE IMPACT OF ICT-INFORMATION COMMUNICATION AND TECHNOLOGY IN EDUCATION SECTOR.

DR.QUDSIA BANO* and DR.NEENA SRIVASTAVA

Associate Professors Chemistry, Mahila Vidyalaya Degree College, Lucknow

ABSTRACT

ICT has redefined, revolutionized and simplified the way students learn and grow in life. Internet of things has linked the areas where innovations helps in better understanding of the subject by various tools that it has given to modern day education system through video tutorial 3D modeling and virtual reality. This has also increase the active participation and active learning in both fronts including the students as well as the teacher. IOT has found greater application in education but has yet to deal with the modern day challenges of the society in large.

***Author for Correspondence** E-mail: qudsiabano07@gmail.com

INTRODUCTION

ICTs are also used to refer to the convergence of media technology such as audio-visual and telephone networks with computer networks, by means of a internet or interconnecting device which helps in the share of information and learning through modern day devices. ICT specially in the field of education has impacted and enhance the life's of different strata of society. People can access information from remote areas which helps in development of child where good school, skilled and efficient teacher may not be accessible. It increase the efficiency and delivery of the information to the students within time and challenges are reported.

For the development of the nation , it is in need of high skilled and educated people. ICT have proven to be the powerful tool for spreading the educational opportunities, to the most vulnerable sections of the society because of different societal reasons in the society like ethnicity, girl child unaffordable education remote areas as well as for the person with disabilities which has constraints of time and money. In such diverse socio economics and cultural situation , ICT has proven its way forward in uplifting the situation and hence the development of the nation. ICT not only has sense of providing education but considerate of quality education as good and renounced teacher can be accessible to even remotes areas which helps in better learning and quality education let's say the example of NPTEL where professors of colleges of national importance teach the fundamental subjects which now easy to learn.

Distance learning is possible by the application of the ICT , hence bringing the education to the doorstep for the children living in different strata across India. It offers engaging learning environment for students of all

ages and enables a knowledge network for students and also high speed delivery of uniform quality content at reduced cost bringing the cost of education from very high to very low and can serve multiple teaching function and diverse audiences.

QUALITY OF EDUCATION

Since the quality of education is the critical issue and enhancement of education is vital and thus becomes more significant in education and training. Quality can be enhance by increasing the student motivation and engagement in the activity and by facilitating the acquisition of basic skills and enhancing teacher training by using ICT in could be used to learner centered environment for learning.

ICTs that uses videos television and multimedia computer software that combine text colorful picture and live images which are moving that helps in engaging the students and interactive lead better understanding of the concepts and also explanation become easy and hence it acts as a convenient tool for the efficient delivery of the lecture to the students by the teacher. It is evidently seen, as the teacher feels that the visual audio and 3D modeling combination helps in putting abstract concepts across. Technology involvement helps in presentation, demonstration drill and practices, interaction, collaborations which makes the job easier depending upon the time and circumstances.

E-learning is learning through internet. E-learning is the process of using electronic technologies for teaching-learning processes in which the learning activities take place either entirely or partially online. They can be conducted by means of electronic media without the use of the Internet.

ICT in management of School With the introduction of ICT helps in automation and dealing with the school processes, thus helps in administration program. School wide local area network enables in automation of a variety of processes like library automation, automation of maintenance of records, students tracking, resource planning ,with existing ICT tool this could bring increase in the efficiency of system. The system like school management information system [School-MIS] and Education management Information system [EMIS] helps in managements in school and college.

ICT is used For providing helps for children with special needs, as it catalyze the cause and the achieve goals of inclusive education in school. ICT software and tools to facilitate access to persons with disabilities like screen reader, Braille printers, etc. We based interfaces developed for the programmed including digital repositories managements information systems etc where the use of responsibility for the generation of the signal that leads to display. Digital content and resources for the exclusive use of persons with disabilities. talking book for example will bedveloped and deployed.

Tools for ICT in education like Virtual Learning Environment, E-vidyapeeth, internet Forums, VSAT-Technology (Very Small Aperture Terminal), Digital Portfolios, Edusat- India's First Dedicated Satellite for Distance Education, NICNET (National informatics centre Network),

Mobile Learning, Video conferencing , Flipped Classrooms, MOOC (Massive Open Online Courses) , Swayam , Game based learning, Social Leaning, Sahapedia (open online resource on the arts, cultures and heritage of India) , Traditional Knowledge Digital Library (TKDL), NPTEL (National Program on Technology Enhanced Learning).

CHALLENGES

- **Digital Divide:** There is a huge digital divide that exists in India
- **Poverty:** Most of the people in India are poor and live below the poverty line and are currently struggling to meet their daily sustenance. Expecting them to find ways to make their children digitally connect with schools or participate in online classes is irrational.
- Television and Internet facilities are still luxury items for many people
- **Capacity Development:** Expecting teachers to seamlessly move to online platforms without adequate training and support would also be unreasonable.
- **Inequalities:** Country like India distance learning has also revealed glaring challenges that stem from socio-economic, digital and educational inequalities.

CONCLUSION

- India is moving towards a global knowledge super power in which educational technology, digital initiatives and virtual classrooms play prominent roles especially for the people of rural and remote India. Hence, digital education and virtual learning need to be the essential prerequisites of most of the rural development programmes.
- Education is a nation-building process and digital education is the progressive education for building a healthy rural India. States and UTs have to actively support and be involved in creating and providing innovative resources and implementing diverse centrally sponsored digital initiatives under Digital Education and Virtual Learning.
- India is always ready to go hand in hand with diverse Government sponsored initiatives on digital education and virtual learning for 'Digital India' by building a well digitized rural India. That means it is the right time to encourage similar innovative digital and virtual learning experiences and approaches for leading rural India towards a 'DigitalIndia'.

REFERENCES

1. Abdullahi, H. (2013). The Role of ICT in Teaching Science Education in Schools. Journal of Educational and Social Research.
2. NMICT <http://www.nmeict.ac.in/>
3. Srikanth B Iyer,(2012), The Hindu Newspaper February 06, 2012
4. Satish Deshpande(2020), The Indian Express May 27, 2020
5. .D.BALASUBRAMANIA (2020) , The Hindu Newspaper September 12,2020
6. Rohit Dhankar(2020), The Hindu Newspaper September 23,2020