

Role of Teachers and Students by Adopting ICT Tools in Teaching

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Abstract—A traditional teacher needs teaching aids like blackboard, charts, instruments for demonstration/ Experiments, etc. But ICT tools help an easy way of learning and teaching the subject concerned. A teacher should acquire the knowledge to use the ICT tools for collection of information of relevant subject from all the parts of the world. A teacher by updating his/ her knowledge can give new examples and then improve the quality of teaching. There by the students can grasp the subject easily and clearly with the help of ICT Tools. Information and Communication Technology is a way of using knowledge. A teacher must learn and use the ICT tools to provide unique methodology and global collection of subject knowledge to his / her students. Teacher can change, improve, update and add a new element to teaching, and increase the quality of activities assigned to students with the help of ICT tools. It is a source for empowerment of the related stream subjects in Higher Education. The Technology enhances the fast communication across Geographical barriers, and therefore gives students an opportunity to communicate early in life with a broad range of people. Information and communication technology usually abbreviated as ICT, is often used as an extended synonym for information technology (IT), Information and Communication Technology (ICT) can be utilized for the education sectors both in primary Level Education and Higher Level Education, for all round improvement of the student.

Index Terms— Teachers, Students, Higher Education, Information, Communication, Technology

I. INTRODUCTION

"Education is the manifestation of the perfection already in man" -Swami Vivekananda

A teacher is often a guru for every student. After mother there is a place to teacher. The overall development of student is certainly depends on the teachers guidance and Environment. In the age of Globalization and Modern world there is the most important role of the teachers and students. The role of teachers and students always varies as per the place, time, situation, institutions and organizations of respective stream. Information and Communication Technologies like **Electronic mail** is essential in sending messages, pictures files and other attachments. **Facsimile** is another common means of ICT communication used for sending messages over the telephone network. **Modern fax machines** are digital, making it possible to send a message over a wireless connection. **Video conferencing** is the best communication medium when organizations want to reach different people across different time zones or countries. **Over head projector** used to project the required information in enlarged mode on wall or separate screen. **LCD or LED** television also used like OHP. Another type of ICT communication is **telephone conferencing**. Phone conferences allow participants to listen to each other. They are connected through a phone

call using an option of conferencing. **Internet** is the main source, which has a global Collection of Information from different streams of Education and other sources of information, provides everything to the teacher and student to learn. In IT, hardware is the basic computer and associated peripheral devices such as scanners, printers, CD-ROM, DVD drive and so on. Software consists of the programs a user installs for personal use. such as the operating system (MSDOS/Windows/Linux/Mac OS), word processors, spreadsheets, databases, graphic design and photo manipulation. Information and Communication Technology skills are those associated with the proper use of the operating system and other installed programs. In the current scenario every teacher and student must have knowledge to utilize and proper use of the Information and Communication Technologies in Education with the help of Internet and ICT tools. This medium uses a camera, loudspeakers, Internet connections and microphone to connect different people at the same time. The equipment used allows everyone to see, speak and listen to each other.

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II. Role of Teachers while using ICT Tools in Higher Education

"The Guru is the means of realisation. There is no knowledge without a teacher." - Swami Vivekananda

Teachers should be available for providing an authentic knowledge to students. Understanding level of subject knowledge of the students is very important to teach any stream of subject. Teacher needs a procedure, to teach the students or ways to present a subject in an interesting and effective manner and make the students successful in their stream. Building the confidence is an important in almost every aspect of student in higher Education, because it helps to build an effective learner, but so many people struggle to build confidence. Generally students who lose confidence do find difficulty to learn subject.

A teacher needs to know how to motivate the students, and what background they have. Every teacher wants to teach the subject in different way, not in a routine way, such teachers benefited from ICT tools, as compared to routine teaching aids. Information and Communication Technology tools help the students to build confidence and make them as fast learners in their streams very easily. Teacher attitude being a dynamic entity gets affected by the properties such as age, previous experience, beliefs, gender, place, time and stream of education. Information and Communication Technologies can be categorized as Hardware and Software tools. ICT Hardware tools are Visual Display Unit , Printer , Plotter , Projector , Liquid Crystal Display or Light Emitting Diode Televisions , Mobile phones , Modern fax machines ,swipe machines ,Laptops, etc. ICT Software tools or Applications like Email, Face book, YouTube, Google, Google drive, WhatsApp, Web browsers, Facsimile, Video conferencing, audio conferencing, etc. Information and Communication Technology can contribute in great manner to universal access to education, equity in education, the delivery of quality learning and teaching.

III. Role of Students while using ICT Tools in Higher Education

"Black colour is seminally bad, but every black board makes the students life bright" - A.P.J. Abdul Kalam

Generally every student needs some tools like books, charts, news papers, calculator, etc. But, first of all, students should be active participants in their education with the help of Information and Communication Technologies .Students should feel free to ask questions, or express their own ideas about a subject, not only to their teacher, but also their friends and others who are connected to the **Internet** within the local area, metropolitan and wide area network. This allows students to improve their

knowledge about their subject from Global collection of information, and applies it to their stream of education. A student's role is also to be motivated to learn subject. This role is also incoherent with teacher's role. However, if students are truly interested in learning, it is their job to think how to use the Information and Communication Technologies in a proper way. Students should be responsible for gathering materials needed for their work through the Internet. Students can use YouTube for online classes and Offline classes from different universities or abroad for global collection of information regarding their stream, Email for sending and receiving the materials of their subject ,fax machines are used for fast delivery of hard copy materials, What's app is used to send text ,images , videos and audios for fast sharing of their materials , telephone is used to for audio conferencing.

IV. Advantages and Disadvantages while using ICT Tools for Learning

Every new technology has its own advantages and disadvantages. The Internet can act as a motivating tool for many Students and Teachers. People are very interested with technology. The Internet provides fast communication across the Global area. Students and Teachers can join collaborative projects that involve students from different states, countries, continents or from any place. The Internet facilitates cooperative learning, creates a livelier atmosphere in classroom. Researchers can take authentic data related to their stream. There is large collection of resources information on the Internet than the libraries in our universities or organizations. There is an online service, *plagiarism.org* at <http://www.plagiarism.org/> , which can assist us in minimizing cases of plagiarism or falsification in the class. This service claims to prevent plagiarism by determining if a term paper has been *pirated* /copied from the Internet or not.

The use of the Internet for education involves some problems also. Not only students, but also teachers and others may expect the problems to be evolved while using the Internet in teaching and other purposes. Criminals, marketers, and other persons can easily hack the information from students, teachers and others who are using internet without proper knowledge of security measures while they are online. These could make the dangerous situations to students, teachers and others.

V. CONCLUSION

Teachers, Students and People who are using the Internet should have proper knowledge prior to use the Technology and beware of its consequences if any thing goes wrong. Parents and teachers need to be vigilant about

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the online activities of the students. In Higher Education, quality to be enhanced and practice to be continued by the teachers and students. Collecting data is information, information leads to knowledge, distilled information is understanding, Insight understanding is high learning is education, which leads to wisdom. Wisdom means self development; individual development is Nation's development.

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