



MODERN TECHNOLOGY AND EDUCATION

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ABSTRACT:

Technology is the bless of science, a gift of God. Technology has certainly changed the way we live. The importance of technology in educational institutions cannot be neglected. The use of technology has made the teaching learning process more enjoyable. Modern technology can solve any problems of teachers and learners on the spur of the moment. Technology has made the life of students easier .Nowadays learners and teachers use various types of software and tools to make presentations and projects instead of using pen paper and chalkboard. Already 2 billion students spend four- fifths of their working hours outside school, in an iPad, YouTube, Google, Wikipedia etc. The purpose of the study was to elaborate the advantage and disadvantage of modern technology in education. The data of this qualitative study was collected from secondary sources like different research journals, books, website etc. The study found out that modern technology impacts education both positively and negatively.

KEYWORDS:

MODERN TECHNOLOGY, EDUCATION, TEACHING-LEARNING, TEACHER, LEARNER.

INTRODUCTION:

Technology has not only changed the way teachers deliver their lessons and how students learn; it has also made education in general more accessible to millions of learners through online classes and online resources. The era of 21st century is often considered as an era of technology because technology has impacted almost every aspect of life today. The powerful features of modern technology has been widely applied to education. The advent of technology in educational field has made the process of learning and knowledge sharing more interactive. Schools have perceived the importance of technology and have started implementing it in the classrooms. with the help of computers in school and different types of educational institutions, it has become easier for teachers to impart knowledge and for the learners to acquire it. The onset of modern technology has made the journey of teaching learning process more effective and more interesting. It is due to modern technology that all our daily labored tasks can now be automated easily and efficiently. Thanks to the application of technology, living as changed and it has changed for better.

REVIEW OF RELATED LITERATURE:

Jennifer,L.H [et.al](#),(2016), studied on one to one technology and its effect on student academic achievement and motivation. The main objective of the study was to determine whether one to one technology truly impacts and effects the academic achievement of students and to determine effects of technology on students motivation to learn. The results of the study show that one to one technology could be a factor in student academic achievement and motivation to be at school.

Bhakta,K.,Dutta,N.,(2016), studied on impact of information technology on teaching learning process. The main objective of this qualitative study was to discuss about the importance of information technology in educational sector, impact of information technology on classroom teaching, advantage and disadvantage of information technology. The study showed that still faculty requires support to enable them to effectively use the technology to the benefit of their students. This support should be provided by the institutions.

Simuforosa,M,(2013), studied on the impact of modern technology on the educational attainment of adolescents. The purpose of this study was to examine the relationship between adolescent usage of computers and academic performance. Within the qualitative research the case study design was adopted, interviews and focus group discussion were used to gather data. The result of this study provides an overview of the impact of modern technology on the educational attainment of adolescents.

Flanagan,J.L,(2008) studied on technology: the positive and negative effects on students achievement. The unit was implemented with and without the use of the graphing calculator. The main purpose of the study was to find the negative and positive impacts on students achievement through the use of technology. The overall results from this research have shown that technology is an effective way to increase student achievement and is also a way to intrigue and increase student interest in the math classroom.

NEED OF THE STUDY:

Education is a lifelong process, it has no limit of when to start and stop. Education helps to gather new experiences in our daily life. Education can change our way of thinking,

living and behaviour and helps to judge human behaviour. Through education learners are getting different types of information. Modern technology has the ability of speeding up information delivery so this ability can be used in improving teaching learning environment. Both teachers and learners are using different technologies to achieve specific academic goals. Modern technologies have reduced the cost of education. Teachers use modern technologies and internet to create and deliver information's and share knowledge using videos and graphic illustrations. It enables teachers and students to communicate with each other through e-mail, whatsapp, e-message etc. Modern technology has changed the way pupils learn, audio-visual techniques make teaching learning process more attractive. Distance learning, virtual classrooms, e-learning are the latest concepts and trends of our education system.

OBJECTIVES OF THE STUDY:

The present study has the following objectives-

1. To know and explain the effect of modern technology on education.
2. To know and discuss about the benefits of modern technology in education.
3. To find out and explain drawbacks of modern technology in education.

RESEARCH QUESTIONS:

1. How modern technology affects education?
2. Has any benefits of modern technology in education?
3. Has any negative side or drawbacks of modern technology in education?

DELIMITATIONS OF THE STUDY:

- In this qualitative study the data was collected from secondary sources only.
- The discussion about effect of modern technology is delimited in educational area only.

METHODOLOGY OF THE STUDY:

The data of this qualitative study was collected from secondary sources like different research journals ,books ,websites etc.

DISCUSSION:

1. HOW MODERN TECHNOLOGY AFFECTS EDUCATION?

Teachers in the pre technological era did not have many tools to ameliorate their teaching process. They depended mostly on the blackboard and chalk to make the teaching learning process facile and enjoyable. Beforehand teaching learning process was teacher centered, while learners passively received it. Nowadays in the technological era, The classrooms transformed from teacher centered to learner centered. Through many technological tools that teachers have at their disposal, they try to make the learning process fun, interactive and informational for

learners by engaging them and giving sense of independence. With new digital platforms and templates the education system become more interesting and independent. Technology can encourage learners to participate in the classroom activity. For education is changing more than it has since the invention of the printing press over 500 years ago, as now the world is our classroom and learning is lifelong. Technology has significant effect on our daily lives. In fact, it has redefined the way we live. There is no doubt that technology playing an important role in all sphere of life. Easy access to information, easy retention of information ,more storage of information, more interactive teaching learning process and sharing of knowledge is now possible with the help of technology.

2. HAS ANY BENEFITS OF MODERN TECHNOLOGY IN EDUCATION?

Using technology in the classroom definitely has many advantages. Here are some of them-

❖ *CREATES A MORE ENGROSSING LEARNING ENVIRONMENT:*

Technology can encourage learners to participate in the classroom actively. While some learners might find the experience of talking in front of their classmates intimidating, the online classes might have the opposite effect on them. They might feel more comfortable expressing themselves in writing by joining discussions on discussion boards that online classes offer. Technology helps in communication process among learners. While some find awkward to ask classmates or teachers for help on particular subjects, communicating through online might be easier for them.

❖ *ENHANCES TEACHING TOOLS:*

Computers provides us an interactive audio visual medium. Animation software and powerpoint presentations are used to present information and knowledge in an interactive way. Both teacher and learner find it helpful and interesting to use audio-visual tools and modern technologies instead of chalkboards and pen-papers. Large number of learners can be addressed simultaneously with the help of projectors, screens, microphones and speakers. These teaching learning aids have led to increased attendance in classes.

❖ *HELPS IN COLLABORATIVE STUDY AND TEAM-WORK:*

Over the years teachers have seen an increase in collaboration among learners whenever they involve technologies in the classroom. During lecture based classes where students study passively and wait for the teachers to share and explain educational information for them and most of it isn't retained, in the classes where technologies is involved, learners tend to collaborate more and the percentage of the retained for information increases too.

❖ *MOTIVATES LEARNERS TO LEARN:*

Most of learners have been raised with technology, they

don't have a problem with it, enjoy using it. Through modern technology, active learners remain engaged with the lessons and encourages the learners who are not that active to find that will make the learning process easier, fun and interesting for them. Learners can learn new topics and can practice those latter with the help of technologies. Thus modern technologies motivates learners to learn.

❖ **PROMOTES DIFFERENT LEARNING STYLES:**

It is difficult for the teachers to create a lesson plan that incorporates all of the different learning styles. With the help of technology, this has become possible. Some learners learn best by hearing, technologies gives videos or podcasts facilities for them. Some learners preferred using pictures to visualize their learning materials and some might learn best on their own, So they use online learning. Modern technology helps teachers become creative in ways of teaching.

3. HAS ANY NEGATIVE SIDE OR DRAWBACKS OF MODERN TECHNOLOGY IN EDUCATION?

Though modern technology can make lessons more engaging and useful for learners and help teachers to present study materials in different ways, there are definite drawbacks of technology in education

❖ **DISTRACTING STUDENTS:**

Smartphones have bad reputation in classrooms. Research suggests that during class time, when smartphones 42% of the time that students spend on their smartphones in the classroom, it was to text, tweet or otherwise engage in social media rather than the lesson. Thus technology distract learners from their study.

❖ **DISCONNECT STUDENTS FROM FACE TO FACE RELATIONSHIPS:**

Face to face interactions between teacher and learner can help learners not just acquire facts, also to understand, interpret and apply these facts into useful and interesting knowledge. Through face-to-face interactions, teachers can help learners build self esteem and confidence and emotional maturity. Particularly in disadvantaged areas, teachers can provide a zone of comfort and security. But technology is unable to build emotional relation with learners. It cannot be the only component of the learning process for students.

❖ **CREATE MEDICAL ISSUES FOR SOME STUDENTS:**

Staring at a computer screen, a smartphone screen or a tablet screen for long time can create eye strain. When this occurs, the symptoms may include irritation of the eye, feelings of fatigue and even blurred vision. According to reporting from CBS news, heavy computer use among children puts them at-risk of suffering early myopia. In people 12 years of old, the prevalence of myopia is nearly 60%. Besides eye problems it also could occurs spondylitis.

❖ **HAZARD OF UNRELIABLE RESOURCES:**

There is a lot of good article that can be found on the internet today. Besides those there is a lot of information on the internet nowadays, that is fake or detrimental in some way, but it cloak as being real. According to research published by New York Magazine, less than 60% of web traffic today is actually human based searches or content interaction. Not only is the content sometimes fake but then also so the users might not be real too. Teachers must show learners how to access real information, show them how to verify its validity and then encourage them to use it appropriately.

FINDING:

Modern technology helps teachers and learners to participate cooperatively in the teaching learning process. It extend their thinking, knowledge and enables them to perform various educational activities in the educational sector. Different types of technologies both hardware and software makes the teaching learning process and total education system more interesting and enjoyable. But besides those there are some drawbacks (like distracting students, lack of face to face relationship, medical issues, unreliable resources etc) of using technology too. So this is clear from the study that modern technology impacts education both positively and negatively.

CONCLUSION:

Modern technology has positive effect on education and at the same time may also claim negative effects. Teachers and learners should take advantages of these equipments and eliminate the drawbacks which are draggle back many of learners and educational institutions from achieving excellence. Modern technology takes important role in improvement of education system and teaching learning process.

SUGGESTIONS FOR FURTHER STUDY:

- The present study has been conducted on modern technology and education. The study may be conducted on impact of mobile phone on students at different level of schooling.
- The study may be conducted on effect on online classes on students academic achievement.
- Teachers and parents opinion towards modern technology may be studied.

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