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## Role Of Modern Technology: New Era Of Teaching And Learning Pedagogy.

Anita . P. Choudhari, Dr. Babasaheb J. Mohite

Zeal Institute of Business Administration, Computer Application and Research, Pune

### Abstract

*Modern Technology is God's gift for every learner. As technology has been changing day by day it's also changing the way we live today. This paper proposes a contrast between technologies of learners and technologies of learning to explain how technologies has influenced teaching and learning in and out of schools/colleges. Also many complex and critical problems can be solved easily with the help of modern technology. Every learner feels bored while learning any topic manually but technology has made learning and teaching more enjoyable that learners love to learn new things they think off. Technology has made learning so easy that everyone who loves learning can grab various knowledge, certification, and also learn multiple courses simultaneously.*

**Keywords:** Modern technology, Positive effects of learning new technology, Negative effects of learning new technology, Artificial Intelligence, Blockchain.

### Introduction:

#### What is Modern Technology?

Modern technology is the technology that makes it easier for students to search information quickly and accurately on fingertips. Now-a-days search engines and e-books are replaced by the traditional way of teaching like textbooks. It's a really interesting question when you were wondering about the old days when people bought different reference books and carried a lot of heavy loads to learn new things at that time there was no concept of E-learning. Today, technology is changing so rapidly that in a few years the concept known as virtual learning environments will disappear and new concepts such as e-learning, audio and visual technology and artificial intelligence will emerge.

#### Objective of the Study

1. To research and analysis of the technologies used in education.
2. To improve the quality of education and improve the learning process.
3. To improve pedagogical transactions anywhere, anytime and to increase learning through various digital tools.
4. To provides teachers with many e-learning tools such as Gamification, AR/VR, smartboards, etc
5. To increase the efficacy of the teaching and learning process in order to fulfil the demands of a rapidly changing era.

## Literature Review

Modern technologies have changed how teaching and learning are done in schools, according to a research article by Richard Halverson and Annette Smith. This describes how technology influences teaching and learning both within and outside of schools by drawing a distinction between technologies for learners and technologies for learning.

Technology is God's gift to learners and learning, says Dr. Bhawna's research. Modern technology makes it easier and more efficient to complete many difficult and important tasks. People used to send letters through the mailman in earlier times, and there was no such thing as online education.

### Positive effects of learning new technology:

Today, we know that technology can be used to efficiently teach, learn, develop and improve our strengths. Look around you and you will see that technology is improving education. When people are educated around us, we can use that knowledge to develop society. Apart from social development, it is also essential for personal growth and development.

When we talk about the impact of new technologies on education, the first thing that comes to mind is that almost everyone will have access to unlimited knowledge. Instead of carrying a book count, you can physically carry the books available in online mode. A new technology these days has the ability to download e-books and audiobooks, giving us a great opportunity to purchase via various technologies. Books are available in a variety of formats including PDF, audio and video formats for students to freely access. The educated world can now fly far higher and quicker than before thanks to technology. Ease of access to large information: As we analyse our environment, we find that most students use internet for their requirements, which is a great platform to access knowledge and learn things in advance. Students and other learners can access a large amount of data at their fingertips, which allows them to learn faster and more effectively.

1. **Enhances learning and facilitates student:** As everything is available on various platforms it enhances the learning process. The entirety of the subject's details are published on several websites, which students can consult if they run into any problems. The best thing is that students may manage their work from anywhere and at any time thanks to modern technology, which makes computers, iPhones, and iPads readily available to every student during class.
2. **Technology enhances creativity:** Rapidly growing technology is changing the way teachers and students think and think. Growing technology increases make students more creative. Example: When students need to give a presentation, they typically use Microsoft PowerPoint, but as they learn new technologies, new websites (such as the Canva website) that can be used to create creative presentations I learned that there are several. The only problem is that in order for students to be creative, they must be curious about learning new things.

### Negative effects of learning new technology:

While there are many positive things about learning technology, there are some negative points too. Some of the negative effects of technology on students are listed below.

1. **Decrease social skills and increases laziness:** Students become highly thoughtful because there is a lot of material easily available on our online page. When students can grasp knowledge in seconds, they are less likely to learn new things and it can seem like a tedious task. This also encourages laziness. Because students won't use their creativity to do things differently if they know they can easily get the job done at the last minute by just searching online.
2. **Can be very distracting:** With so many students using technology to their advantage, it is also very easy to distract them. When students spend more time using technology, they become more attracted to, familiar with,

and easily accessible such new things. Video game movies and videos on YouTube and other of his websites are also readily available online.

- 3. Technology affects Health:** Health problems are becoming highly prevalent as a result of modern society's continual reliance on technology. It has many effects not only physical health but also mental health. Obesity, impaired eyesight, headaches, reduced blood circulation, poor body posture, and sitting and working in the same location increases weight, which further contributes to problems like heart disease and high blood pressure. These are the most common negative consequences of technology on our health. The most common mental effects that technology has on our health are depression, distraction, anxiety.

## Technology in future:

Technology plays a very important role in surviving in the 21st century. Since Covid, technology has proven to be very important especially for the education sector. Learners have recognized the role of the transition to digital during the pandemic, and it suddenly gave them a boost. More than 75% of her learners believe that learning digital content can transform textbook learning, according to schools and teacher training colleges. Several new technological wonders are trending today. Among them are artificial intelligence (AI), learning management systems (LMS), virtual reality, gamification and blockchain.

- 1. Artificial Intelligence-** According to a report published by the e-learning industry, about 50% of learning tools are coupled with artificial intelligence. AI can help with personal coaching. A chatbot for chatting is a perfect combination for learners because teachers don't have time after work.
- 2. Learning Management System-** A platform called a learning management system (LMS) is being created to monitor learners' online learning endeavours. It helps to develop content delivery and educational tools, lectures, and foster communication. Parents can track their child's progress, grades, and assessment data, as well as see how their child is learning.
- 3. Gamification-** A new technique called gamification simulates instructional games and adds visual components to enhance learning. It is clear that when pupils are having fun, they learn more effectively. Engage your pupils using various techniques, such as games, team projects, and scoring.
- 4. Blockchain Technology-** As it digitises documents by connecting them directly to students, this technology aids students by decreasing the need for facilitators. In order to increase transparency and guarantee that no documents are lost to technology, students utilising blockchain can also publish their assignments.

## Conclusion

Technology has positive effects on education and at same time it also has some negative effects.

Every new learner whether it be teacher or student should take advantage of this good light and reduce the drawbacks which are pulls back many students from achieving excellence. Thus, it is time for every country to explore more technologically equipped education sector in the future. As technology has been changing the way people live their lives previously these technologies were used for communication purpose only. Today technology has become integral part of teaching and learning process as it made learning so easy and more fun and interactive.

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## Biographies

**Miss. Anita P. Choudhari.** Student pursuing MCA at Zeal Institute of Business Administration, Computer Application and Research, Pune. I am writing a research paper on ‘Role of Modern Technologies: new era of teaching and learning pedagogy’ under the guidance of Dr. Babasaheb J. Mohite.