



# Technology and Teaching: A Review

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## Abstract:

Technology has become an integral part of modern education. The introduction of technology in teaching has introduced more devices that teachers or educators need. Educators are finding it challenging to implement mechanization while teaching. The use of technology has increased accessibility and inclusiveness. Many teachers are putting up misleading information online to earn more visits, even if the information is not accurate. Many websites have become more focused on getting better rankings than actually providing the information they need to. Many sites are displaying misleading information on the Internet to earn a higher number of visits. The purpose of this review is to provide an overview of the current state of the art of teaching and education.

Key Words: Teaching, Technology, Teachers, Education System

## 1. Introduction:

Teaching is an art or particular skill that someone tells you to do something. Teaching is a direction or explaining to a student how to do something. It is an activity aimed about meaningful learning through a particular method which morally and technically acceptable. Teaching involves a teacher, a student or a learner and content in form of knowledge, information and skills. It is a process to make understand a learner to acquire knowledge. Teaching is a profession of those who give instruction especially in a school or college or in a university. Teaching is the world's largest profession in the 21<sup>st</sup> century. It is estimated that there are nearly 50 million teachers throughout the world. The function of teachers is to help students to learn effectively.

According to Gage (1963), "Teaching is a form interpersonal influence aimed at changing the behaviour potential another person". Smith in 1963 further extended the definition of teaching is a system of actions involving an agent, an end in view and a situation including two sets of factors those over which the agent has no control (class size, characteristics of pupils, physical facilities, etc.) and those which he can modify (such as techniques and strategies of teaching).

John Brubacher defines (1939), "Teaching is arrangement and manipulation of a situation in which there are gaps or obstructions which an individual will seek to overcome and from which he will learn in the course of doing so". B.O. Smith defined teaching as "Teaching is a system of actions intended to induce learning".

Edmund Amidon (1967) defined teaching as "an interactive process, primarily involving classroom talk which takes place between teacher and pupil and occurs during certain definable activities"

Robertson (1987) indicated that "Teaching is a generic term which denotes actions undertaken with the intention of bringing about learning in another".

## 2. Technology and Education

Technology is the use of scientific knowledge for practical purpose or applications, whether in industry or in our everyday lives. Technology is the branch of knowledge that deals with the creation and use of technical means and their interrelation with life, society and the environment.

Advancement in technology has propelled the education sector in the last few decades. Revolution in technology approaches utilization of different technologies to aid students in their classroom learning. Many educators use computers, tablets and projectors in the classroom, and others use the internet to assign homework to students. The internet is also beneficial in a classroom as it provides unlimited resources in the form of audio, video and images or animations.

### 3. Application of technology in teaching:

1. Video conferencing: Videoconferencing or video teleconferencing is the synchronous two way connection of two or more locations through audio and video equipment's.
2. Computers/laptops/MacBook's: That we use to view, store, send, and receive information, not only help with presenting lessons but also with management and organization. Computer will be used for preparing lesson plans, completing grade book, checking e-mail, preparing letters etc. the computer also serves as the main connector to all of your other technology.
3. Internet: The internet is recognized as an important tool in education. It is widely used to facilitate studying and help communication between teachers and students.
4. Smart class: Smart class is defined as a class in which various technologies are used to enhance students learning. In a smart class there will be computers, projectors, internet connectivity and other multimedia devices such as home theatre etc.
5. Smart boards or interactive white boards: An interactive whiteboard is a large display that connects to a computer and a projector. The projector projects the computer's desktop onto the board's surface. Interactive white boards have various facilities to draw, show video, images, illustration, maps, graphs, games, manipulate in own way.
6. PowerPoint: Power Point which is commonly used now for educational presentation has a selection of transitions as feature all of which are borrowed from film and television editing techniques.
7. LCD Projector: Is a type of video projector for displaying video images or computer data on a screen or other flat surface.
8. Mobiles, Tablets and IPADS:

### 4. Principles for Application of Technology in Teaching:

While using technology for teaching, there are four basic principles to be kept in mind:

1. Alignment: technology should be used for a purpose-not for the sake of being flashy and not as a distraction from other forms of pedagogy.
2. Accessibility: technology that teacher intend to use is accessible to students.
3. Assessment: As with lectures, discussions and labs, provide students with guidance when dealing with media technologies.
4. Reinforcement: technology should be used as reinforcement of and supplement to teaching.

### 5. Advantages of Technology in Teaching:

Technology plays an important role in teaching because it provides a wealth of benefits like efficiency, access, connectivity. Technology benefits in education when used as tool for learning and teaching. In today's blended environment technology and technology infrastructure can help maximize student learning both in and outside of the classroom and support teachers and academic leaders in achieving educational priorities and goals.

Technology has become an integral part of modern education. Many teachers are using various forms of technology to engage their students in the classroom, from interactive whiteboards and tablets to online learning platforms and virtual reality simulations.

1. Powerful tool in education to support educators: Technology can be used as a powerful tool in education to support teachers or educators in achieving their teaching goals. Learning experience with the help of

technology can help teachers of any subject for any age group student social, emotional and practical skills through the act of competing activities and assignments.

2. **Enhanced Accessibility and Inclusivity:** Technology enhances accessibility by breaking geographical barriers. It enables teachers to access educational resources from anywhere.
3. **Online resources improve student learning and retention:** According to a study conducted by the Pew Research Center, 92% of teachers said that technology improved their access to content, resources, and materials that could help them in the classroom. Through videos, learning games, and images, teachers can show students colorful, stimulating examples of the material that they're trying to teach. Subjects that are historically dry or difficult to grasp can be turned vibrant and interesting. This will improve students' enjoyment of the material, and subsequently, their understanding of the material. Overall, this will create a much more engaging and effective learning environment.
4. Easy to access information.
5. Greater interest in learning.
6. Increase retention of information.
7. Robust information storage.
8. Better presentation of information.
9. Teaching is made more interactive.
10. Knowledge sharing made easy.
11. It can make teaching more effective.
12. Organization of matter can be easily done.

## 6. Disadvantages of Technology in Teaching

Technology rapidly developed from the last century. It has influence many fields including education. Application of technology in teaching and education has various benefits for the education system. However the rise of technology in teaching has also carried some disadvantages.

1. **More Expensive:** The introduction of technology in teaching has introduced more devices that teachers or educators need.
2. **Insufficient Teaching Methods:** The integration technology into teaching means that some of these professors have to become tech-savvy, which takes time. Educators are finding it challenging to implement mechanization while teaching. On the other hand, students are good at using technology but also find trouble learning from it.
3. **Misguiding Information:** Websites have become more focused on getting better rankings than actually providing the information they need to, Many sites are putting up misleading information online to earn more visits, even if the information is not accurate.

## Conclusion

Technology will always keep growing, and new inventions will keep being discovered. For the most part, growing technology is a sign of progress from our society. But enhancements in technology should not dictate the path of education. Instead, it should improve education while still upholding the core values associated with learning.

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