



## An Impact of Educational Technology in Teaching-Learning Process

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### Abstract

The 21st century's teaching-learning process was entirely reliant on educational technology. Nowadays, the technology touches every aspect of human life. Technology plays crucial roles in work places, education, entertainments and the way of life surviving. There is evidence of the world's remarkable technical advancement and growth. Technology has also evolved in recent years with the use of laptops, cell phones, websites, text messaging, mobile phone apps, and social networking sites. This development suggests that technology has substantially helped in a variety of contexts, including the education sector. With many apps for online learning, teachers, students, and remote learning, we can observe the benefits of educational technologies. The purpose of this article is to give a brief overview of the importance and application of educational technology in the classroom.

**Keywords:** Educational Technology, Teaching-learning through ICT.

### Introduction

The use of technology in education is more important than ever in today's world. Despite their awareness of the educational benefits of the equipment, instructors are not trained to use it themselves.

Educational technology is a systemic, organized strategy of executing cutting edge innovation to upgrade educational output. It's a comprehensive strategy of conceptualizing directions strategy usage and evaluation, Perusing, Coaching, and making a difference actualize unused educating strategies. It requires educating assets, methodologies and work-related organization, the activities of all individuals within the educational phase. Educational technology has no single word still. Distinctive nations utilize diverse words and equivalent words counting instructional technology, education though ICT, ICT in Education, teaching-learning technology and so on.

Educational technology is a comprehensive term for both the material instruments and the theoretical foundations for supporting learning and teaching. Educational technology isn't limited to tall innovation but is anything that enhances classroom learning within the utilization of blended, face to face, or online learning.

### Importance of Educational Technology in education

All students have access to flexible and readily available learning resources because to educational technology. Students can use all materials outside of the classroom, even if they are all available in the classroom. Students with learning difficulties or those who are slow learners would particularly benefit from



this. These students are able to review the lessons as much as necessary and have a full understanding of the material.

Students who are unable to make arrangements for daily attendance at classes also benefit from the availability of learning tools. Low-cost electronics designed specifically for education are available for students with limited funds.

For pupils, visual learning is more successful than traditional chalk and talk. This is due to the fact that text is not as quickly processed by the brain as images and motion pictures are. Educational technology supports audio-visual teaching strategies that increase students' retention and engagement of learning.

### **Benefits of Educational Technology in the Classroom**

#### **A Learning Environment with Enhanced Engagement**

The creation of a more engaging learning environment for students is one important advantage of using technology into course design. It's difficult to dispute how technology has changed how we educate and learn.

Teachers may use technology to convey material in more engaging and innovative ways. With so many options available (and more in the horizon due to technological breakthroughs like virtual reality), this is an exciting moment to be a teacher designing a course.

#### **Prepare Learners for the Future**

Since technology is widespread, it is critical that it be included into the modern learning environment for students. By incorporating technology into your lessons, you may assist students get more comfortable with popular software that they will encounter in their future employment.

Teachers want to prepare their kids, and using technology is a terrific method to accomplish that goal. Students must be able to comprehend the fundamentals since it will be important to them in the future. Their future personal and professional life will be heavily reliant on the usage of computers and the internet.

#### **Connecting the learners**

The ability of a teacher and student to connect with one another is one of the key factors in their success. In order to foster a sense of community in their classes, teachers are always looking for new ways to engage with one another as well as their pupils.

Educators now have the chance to establish new connections with their pupils because to technology. It makes it possible to establish new channels of contact and utilize the Internet to provide course material to students in a fresh way, both of which may be highly beneficial.

Since many kids these days are already drawn to the Internet, you may improve possibilities for your pupils and yourself to form a sense of community in the classroom by implementing these tools.



### **Fast Collaboration**

A collaborative learning environment is essential for fostering engagement. Students can have wonderful conversations when they use technology to encourage and support them. Through technology, students will communicate with one another and talk about various approaches to working together and learning.

Given that some kids are naturally adept at using computers, it won't take them long to pick up some tips and techniques and be able to assist other students with their homework. This fosters a climate of collaboration in the classroom, which strengthens community ties.

### **Support to Learners**

Having access to technology helps many pupils study more effectively. The use of educational technology in the course design is essential to reaching the largest number of learners.

A wider audience may be reached by teachers using a range of teaching and learning strategies made possible by educational technology (more on that in a bit). Many educators want to connect with as many kids as they can, and technology offers them an excellent way to do so.

### **Issues with using technology in the classroom**

Despite the clear advantages of educational technology, adoption of the new tools has not always been without problems. Among the most prevalent problems are:

#### **Cost**

Some of these technologies are extremely expensive and out of reach for smaller universities and institutions. Some institutions' policies make matters worse by preventing teachers from providing their pupils with the necessary paperwork and information.

#### **Lack of Training**

Educators' familiarity with all new educational technology is greatly enhanced by tech training. Teachers have a steep learning curve when it comes to new technology because of the generational divide between them and their students as well as the fact that the majority of them grew up with the same kind of educational technology that their students have access to and control over.

Institute need to spend time and money acquainting themselves with educational technology and providing them with the necessary training to make the best use of it in order to address this issue. They are unable to produce good outcomes since they are not properly trained to use the latest technologies.

#### **Resistance to Accept Change**

It's normal to feel afraid of things you don't know. One obstacle that prevents the widespread use of technology in education is this. The majority of universities and institutions continue to believe that using laptops and other digital devices in the classroom is improper and a distraction, preferring to maintain a



conventional approach to education. Furthermore, parents discourage their children from using technology since they believe it to be attractive.

### Infrastructure

It has been observed that educational institutions lack the infrastructure necessary for the widespread installation of edutech devices, even in the absence of budgetary constraints. One potential source of interference is the fact that the majority of these gadgets access several programmes and systems over the internet.

### Conclusion

With the aid of educational technology, 21st-century's education is fast transforming. The way the education sector operates has been completely transformed by educational technology. Though, it provides multiple advantages, using educational technology.

The structure of education has changed due to the integration of educational technology, moving away from conventional teacher-centered methodologies and towards a more dynamic, learner-centric approach. In the present day, digital technologies improve education by making it more interactive, accessible, and adapted to each student's requirements.

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