

# THE ROLE OF TECHNOLOGY IN EDUCATION

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***Abstract.** The article describes issues based on analyzing theoretical basis of application innovative methods in teaching process as a core of modern education. Currently, significant changes are taking place in the educational policy of our country. This is due to the transition to the position of personality-oriented pedagogy. One of the tasks of modern education is to unlock the potential of all participants in the educational process, to provide them with opportunities to display their creative abilities. The solution of these problems is impossible without the implementation of the variability of educational processes, in connection with which there are various types of educational institutions that require deep scientific and practical processes.*

**Keywords:** *Education, technology, teaching, ICT*

## **INTRODUCTION**

Technology is transforming how students learn inside and outside the classroom and empowering educators to deliver immersive, personalized learning experiences that prepare students to thrive in the workplace of the future.

Technology is embedded into every part of our lives because it provides a wealth of benefits—efficiency, access, connectivity, and personalization, to name a few. The same can be said for the benefits of technology in education when used as a tool for learning and teaching. In today's blended learning environment, rightsized technology and technology infrastructure can help maximize student learning both in and outside of the classroom and support educators and academic leaders in achieving educational priorities and goals.

In the world that we currently live in, technology is a vital factor. With each passing day a new software or gadget is being brought into the market that serves to improve our lives in one way or another. Technology plays a major role in every field and one such field where its presence is utmost is in education sector. With

the advancement in technology, education among the people has begun to proliferate and there is continuous research and development going on in introducing advanced technologies to make education easier, joyful and accessible. Nowadays with the help of technology the education for children is no longer boring and cumbersome as the educational technologies have made it much more interesting and easy to use.<sup>1</sup>

Study while playing has been made possible only by the new technology. Distance education is a great aid to students who were not able to pursue their degrees. Now due to rapid change in technology, distance is no more barrier. Educational technology usage is broadly classified as:

1. Technology as a tutor
2. Technology as a Teaching tool
3. Technology as a learning tool

## **COMPARISON OF TRADITIONAL EDUCATION AND TODAY'S EDUCATION**

Traditional and Modern education are both related to each other and also different from each other. In fact modern education is inherited from the traditional education. In the past there were no schools or institutions for children. They acquired the education or knowledge in gurukuls from their gurus who mainly focus on the rituals or customs. In contrast to this modern education focuses on reading, writing, arithmetic and religion. With the invention of new technologies the modern education was able to replace the indigenous education.

## **ROLE OF INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)**

Information and communication technology (ICT) is a boom for students today as it has a significant and positive effect on student achievement. ICT basically includes television, computers, internet etc. when used appropriately it can strengthen, expand and raise quality of education. The use of computers and

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<sup>1</sup>Aleksanina, N.S. Innovative activity in education // The world of education - education in the world. - 2006. - No. 4. - P. 119-124.

the internet for enhancing the quality of education by making learning more relevant to life has been seen as an ideal by educational institutions. The citizens of tomorrow who are our students now are going to live in the age of the electronic media. ICT can boost creativity and problem solving capability in students.<sup>2</sup>

### **ADVANTAGES OF TECHNOLOGY IN EDUCATION**

**Easily access to learning material:** - E-books, revision guides and past examination papers that are available on World Wide Web and students can take advantages of these to improve knowledge base.

**Continuous learning:** - With the help of information technology in education it is possible for students to keep on learning, irrespective of where they are even at home. This has greatly enhanced efficiency in the education sector.

**Sharing of knowledge:** - Students from all over the world can come together and can share the experiences; the geographical distances are no more barriers, it has been made possible only through technology.

**Learning aids:** - By using audio and visual materials, we can put some practical aspect to the theory taught in class, students can develop a better understanding of topics being taught.

**Distance learning:** - Now its possible to attend a college overseas without even getting out of your home country and at your own convenience. With the help of online courses anyone can get the second degrees or additional certifications.

**Proper record keeping:** - Unlike in the past when records used to be kept manually and there were many cases of lost files, the use of information technology in education has made it possible for safe and proper record keeping.<sup>3</sup>

### **LIMITATIONS OF TECHNOLOGY IN EDUCATION**

**Access to inappropriate content:** The biggest concern to the use of technology is that how easy pornographic, violent, and other inappropriate materials can be easily accessed and viewed.

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<sup>2</sup>Denisenko V.A. Innovative development of modern science of education // Innovations in education. - 2006. - No. 3. - S. 5-11.

<sup>3</sup> Herold, Benjamin (5 February 2016). "Technology in Education: An Overview". Education Week. Archived from the original on 1 November 2016. Retrieved 31 October 2016.

**A disconnected Youth:** The harmful effect of technology is that when people are attached to their screens almost 24/7, which is causing an entirely new set of social issues to pop up.

**Cyber bullying Trap:** Giving students access to anonymous accounts and endless contact avenues can only lead to trouble. Cyber bullying has become a problem among young people today. This harassment has no end. There is no way to monitor or discipline students who are involved in it.

**Inevitable Cheating:** Easy access to information may seem like a great thing, it can become a real problem in a test taking environment. Cell phone have made cheating easier than ever.

**A major Distraction:** Attentiveness drops drastically in the classroom when students have their cell phones or other technologies out. The focus shifts from their teacher and education, to whatever they are looking at, playing, or doing on their phones.<sup>4</sup>

## CONCLUSION

Technology has given education such a new meaning that it is obvious that the always developing technology has changed our educational system. We can now better prepare kids for lifelong learning, which calls for innovative teaching strategies that use technology more and more in the classroom and in students' daily lives. It is acknowledged that the path to individual achievement is a well-rounded education. It puts pupils on a route to lifelong learning, which equips them to thrive in a world that is always changing.

People may improve their societies and their own lives by embracing new ideas and possibilities and broadening their horizons via education. Students must be able to interact and connect with individuals anywhere at any time in a world where geographical borders are becoming less distinct. This will allow them to communicate knowledge in more interesting and dynamic ways. The role that education plays in competitive economies is also important to take into account,

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<sup>4</sup>Withrow, Frank (1 June 1997). "Technology in Education and the Next Twenty-Five Years". T.H.E. Journal.

since once-local sectors increasingly face global competition. It's an exciting time to be a teacher, and we should take use of it to push lawmakers nationwide, students, administrators, and ourselves to ensure that all educators are utilizing the technological resources at their disposal to the fullest.

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