

Impact of Technology in Education

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Abstract—Now a Today's technology plays a major role in education. In this situation some questions comes to our mind that is as follows, what role does technology have for these two intertwined groups of people? The co-relation between the positive effects on both the students and teachers related to academic performance, e-learning documents and those afflicted with learning disabilities shown in this report. Therefore it reflects the positive effects on the technologies used in the modern classroom. Combining technology and education creates more stimulating learning environments. Accomplish higher order thinking skills such as independent thinking and critical thinking the application of technology and improved motivation attitudes technology must be integrated to the everyday curriculums. The full paper describes impacts of different application of technology on education through the different resources.

Keywords: Computer, Internet, E Learning, Digital classroom, E Learning.

1. INTRODUCTION

The Technology upgrades the education in different field. As we look back just 20 years ago, computers were not common place inside the classroom. Let us consider students thought about how using a word processor versus electric typewriter or even using the archaic manual typewriter. In contrast; today's students and the children are considered as the digital natives. According to the Wikipedia "digital natives" describes as having grown up with the digital technology such as the computers, cell phones, internet, etc. Having the computer set in the every household as well as the every school has exponentially increased students awareness of E Learning technology and also broadened their horizons about the global economy. Now days Students use smart phones that can do almost anything imaginable such as getting real time updates like their bank accounts status, download information using internet, watch TV or even make a movie. Going through our everyday life without the aid of a computer, it could be exhilarating and yet also the cumber some to juggle daily duties.

Today technology reaches well beyond the classrooms to serve the needs of students with the rural inaccessibility, disabilities or being home schooled have more options open to them to learn and investigate. Through the internet, students and teachers have a portal which connected to every part of the world that is register. The Computers can open pathways

that stimulate learning and help develop high order thinking skills when technology is applied in some meaningful manner. Histories of technological developments have often shown links between innovations in industry and communications with improvements in educational methodologies. The proliferation and the success of web based curriculum at all levels of the education is just the latest example of the importance of the technology to both students and the teachers. The greater reach of the educational programs to a growing population of students via internet continues to challenge educators not only by adapting the latest technology enhancements in the traditional classroom to the distance learners but also, to discover additional ways for improving those students and educational experience overall. The ability of computers to individuals offer lessons in multimedia formats and to provide the means for real time student/teacher dialogue and exchange already enriches online instruction but may only be the tip of the iceberg that emerging the technologies will bring to the delivery of quality education in a new century.

2. POSITIVE EFFECTS OF E LEARNING TECHNOLOGY ON ACADEMIC PERFORMANCE:

Academic performance is one of the traditional standards which used to measure success or lack of success in our institutions. Since the passage of No Child Left Behind Act of 2001 all institutions are required to closed the achievements gap and make sure all students including those slow learners to achieve academic proficiency by (Education, 2004). In order for digitalized the classrooms modern technology must be implemented. Therefore digital training programmes must be needed to improve academics in that field. According to the Kulik, computer simulations and Instructional Learning Systems (ILS) are only effective when they are integrated into the regular classroom instruction by (Blomeyer, 2005). Taking it one step further the students whose teachers were high level users of technology scored significantly better than the students whose teachers were low level users of technology in the classrooms.

The Teachers who are high level users, they differentiated from teachers who were low level users in terms of the frequency and the extent of use of computers with students, instructional methods used with technology and attitude

toward the value of technology for learning, variety of uses of technology, and perception of influence of technology to student learning and behaviour by (Center for Applied Research in Educational Technology, 2005).

Finally, interactive computer programs help students increase computer literacy rates. This intelligent programs or software are particularly evident in the success and drastic improvement in numerical skills used in the Pittsburgh. The Algebra curriculum focusing on mathematical analysis of real world situations and the use of the computational tools is supported by an intelligent software program as a part of the regular curriculum for 9th grade algebra. On average, the 520 students in the experimental classes out performed students in comparison by 15% on standardized tests and 100% on tests targeting to the curriculum focused objectives by (Center for Applied Research in Educational Technology, 2005).

3. APPLICATIONS OF TECHNOLOGY:

Presently in the digital classroom, the learning process is increasingly dependent on the integration of the technology thus enhancing learning. The current technology uses the email systems, audio/videos learning system and data processing using some applications. Now as we go into the 21st century as educators need to define the role the computer will play in the students learning.

Students can learn from the computers where technology used is essentially as tutors and serves to increases the student's basic skills and knowledge. Therefore learners can learn from computers where technology is used as a tools in the learning process. It can serve as a resource to help the higher order thinking creativity and research skills by (Associates, 2005). For example, the productivity tools like databases, spreadsheets, computer-assisted design, graphics programs, and multimedia authoring programs allows the students to independently organize, develop, analyze, interpret, and evaluate their own work by (Center for Applied Research in Educational Technology, 2005).

In addition to the fostering independent thinking, the technological processes will also help students to join the workforce with greater abilities. By using technology with the real life links to education and the workforce, technology is used to meet real world demands in careers such as hospitals, sales, finance, and manufacturing. A report on the state of the technology integration in Minnesota documents, that the information technologies bring the world into a digital classroom by allowing the students to interact with other students in their state, community, nation, and world. Information technologies have the potential for being constant and convenient electronic connector that can join the lives and minds of the students, teachers and parents by (Center for

Applied Research in Educational Technology, 2005). Not only the students and teachers of the 21st century need to have the technological skills to navigate through the institution but also for the global economy. In the age of information technology both groups need to acquire the skills to collaborate or participate to meet the real world needs facing us as a global nation of interconnected economies. For example the technological tools allow the students to inexpensively and instantly reach around the world. Learning directly about other cultures by (Center for Applied Research in Educational Technology, 2005). Choosing this technological medium up to date real time news and events can be acquired instantly. The grand example of homegrown ingenuity is you-tube, tube-mate and it has many different venues entertainment, learning, how to segments and the even commercialization of the products. You tube can be seen by anyone with a computer, a smart phone and a high end device

4. CONCLUSION:

Now a day's the rapid advances in technology are reshaping our society, schools and higher educational institutions. Modern technologies have vastly increases our capacity to know things, to communicate and collaborates with others. They allow transmitting information quickly and widely, linking distant places and diverse areas of endeavor in the productive new ways. These advance allows us to form and sustain communities for playing, working and learning in ways un-imaginable just a decade ago. There are wide ranges of new technology available in the different educational sites for the students. This information changes the relationship between the learners and knowledge.

As we can see, when technology applied to learner's, It gives a positive outcome. By adapting technology in education for teachers, students and parents, we can see positive improvements in many different categories as follows:

- Literacy
- Attitudes
- real life with work skills
- The academic performance
- Motivation
- Critical thinking skills

Therefore, No Child Left Behind Act of 2001 is a federal law to improve education for all children. It also holds schools are responsible for results, gives parents greater choices and promotes the teaching methods that works. In accordance with the law technology will enhance education in all areas. The technology that we uses in our everyday curriculum whether it is computers, iPhones, smart phones, webcasting or any other type of mobile technology which will only lead to enhancing our educational system in the 21st century.

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