## Importance of Educational Technology in Teaching and Its Impact on Student Achievement

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Abstract – Today, like never before, the role of educational technology in teaching is of extraordinary significance due to the utilization of data and communication advancements. With the assistance of various applications for distance training, the Internet, instructors, and understudies themselves, they see the upside of educational technology. Educational technology and e-learning can happen in or out of the study hall. It very well may act naturally paced, non-concurrent learning or might be educator driven, synchronous learning. It is suited to distance learning and related to eye to eye teaching, which is named blended learning.

Keyword: Information, Educational, Technology, Application, Learning

## INTRODUCTION

Educational technology is the effective utilization of mechanical instruments in learning. As an idea, it concerns a variety of instruments, for example, media, machines and networking equipment, just as thinking about hypothetical points of view for their effective application. Educational technology isn't restricted to high technology. In any case, electronic educational technology has turned into a significant piece of society today. Present day educational technology incorporates (and is comprehensively synonymous with) e-learning, instructional technology, information and communication technology (ICT) in instruction, EdTech, learning technology, multimedia learning, technology-improved learning (TEL), PC based guidance (CBI), PC managed guidance, PC based preparing (CBT), PC helped guidance or PC supported guidance (CAI), web based preparing (IBT), flexible learning, electronic preparing (WBT), online training, training, virtual individual learning situations, networked learning, virtual learning conditions (VLE) (which are likewise called learning stages), m-learning, and advanced instruction. These names have been variously utilized and comprehended, and conflate to the expansive domain of educational technology and e-learning. These option unmistakable terms are on the whole more prohibitive than "educational technology" in that they separately underscore a specific digitization approach, part or delivery strategy. For instance, m-learning underlines portability yet is generally indistinct on a basic level from educational technology.

Educational technology incorporates various kinds of media that convey content, sound, images, movement, and spilling video, and incorporates technology applications and processes, for example, sound or video tape, satellite TV, CD-ROM, and PC based learning, just as local intranet/extranet and electronic learning. Information and communication frameworks, in the case of detached or dependent on either local systems or the Internet in networked learning, underlie numerous e-learning processes.

#### THEORIES OF EDUCATION

Various pedagogical points of view or learning hypotheses might be considered in designing and connecting with educational technology. E-learning theory looks at these methodologies. These hypothetical points of view are gathered into three fundamental hypothetical schools or philosophical frameworks: behaviorism, cognitivism and constructivism.

Behaviorism: This hypothetical framework was created in the mid twentieth century dependent on creature learning tests by Ivan Pavlov, Edward Thorndike, Edward C. Tolman, Clark L. Body, and B.F. Skinner. Numerous therapists utilized these results to create speculations of human learning, however current teachers for the most part consider behaviorism to be one aspect of a comprehensive union. B.F. Skinner composed widely on upgrades of teaching dependent on his functional analysis of verbal behavior and stated "The Technology of Teaching" an endeavor to dissipate the legends hidden contemporary training just as advance his framework he called customized guidance. Ogden Lindsley built up a learning framework, named Celeration, that depended on conduct analysis yet that considerably varied from Keller's and Skinner's models.

Cognitivism: Cognitive science experienced significant change during the 1970s. While holding the observational framework of behaviorism, cognitive psychology speculations look past conduct to clarify mind based learning by thinking about how human memory attempts to advance learning. The Atkinson-Shiffrin memory model and Baddeley's working memory model were set up as hypothetical frameworks. Software engineering and Information Technology have affected Cognitive Science theory. The Cognitive ideas of working memory (once in the past known as transient memory) and long haul memory have been encouraged by research and technology from the field of Computer Science. Another real influence on the field of Cognitive Science is Noam Chomsky. Today specialists are focusing on themes like cognitive burden, information handling and media psychology. These hypothetical points of view influence instructional plan.

Constructivism: Educational analysts recognize a few sorts of constructivism: individual (or mental) constructivism, for example, Piaget's theory of cognitive improvement, and social constructivism. This type of constructivism has an essential spotlight on how learners develop their very own significance from new information, as they interface with the real world and with different learners who bring alternate points of view. Constructivist learning conditions expect understudies to utilize their earlier information and encounters to formulate new, related, as well as versatile ideas in learning. Under this framework the role of the educator turns into that of a facilitator, giving direction with the goal that learners can develop their very own insight. Constructivist instructors must ensure that the earlier learning encounters are appropriate and identified with the ideas being educated. Jonassen (1997) recommends "wellstructured" learning conditions are helpful for amateur learners and that "poorly organized" situations are valuable for further developed learners. Instructors using a constructivist point of view may underline a functioning learning condition that may incorporate learner focused issue based learning, venture based learning, and request based learning, in a perfect world including true situations, in which understudies are effectively engaged in basic reasoning exercises.

## THE IMPORTANCE OF EDUCATIONAL TECHNOLOGY IN TEACHING

Since PCs are as yet not broadly utilized in numerous schools, the teaching procedure is dominated by traditional techniques. It is dominated by the frontal type of work where the educator had enough interaction with students. Failure to flourish at their very own pace and insufficient movement of students was one of the drawbacks of this kind of learning. In class, we have kids who are not uniform in knowledge and never give enough consideration to the individuals who are not adequately aced the material and the individuals who are over their normal. This distinction is frequently hampered by instructor appraisal work and how to exchange knowledge to a gathering of kids with various knowledge. The educator keeps normal to great teaching where youngsters with insufficient knowledge would not get the important knowledge. The voungsters with insufficient knowledge can advance easily without unpleasant sentiment of their numbness, any disappointment, and embarrassment while for the most advanced kids teaching will exhaust.

With advancement the of information and communication technology, particularly PCs, various researchers were endeavoring to see the advantages and the impact of their utilization contrasted with more seasoned traditional learning. For a long time, we endeavored to offer responses to the topic of advantages and disadvantages among traditional and day teaching where the prevailing present educational technology. The period from 1967 to 1972 is viewed as a time of consolidation of educational technology, which has turned into the most usually utilized term in the exploration of teaching method and the educational procedure. With the application of educational technology, students can autonomously advance in acing teaching materials, to pick the pace of work, to rehash the material that isn't adequately clear, that after tests performed promptly get results and keep tabs on their development. Intuitive, multimedia content gives an incredible preferred standpoint of current learning over traditional learning. With the application of educational technology we get input between the educator and the understudy.

He endeavored to look at research among addresses and PC guidance and guidance to figure out which the better method for learning is. He reached the resolution that they are both effective relying upon the manners in which they are utilized. A similar end stopped by different creators and that will be that there are some real contrasts in the utilization of educational technology and traditional teaching. Then again, research at the Center for Educational Research in Pittsburgh inside Individually Prescribed Instruction demonstrated that PCs are better customized to the individual capacities of students, as opposed to instructors themselves. Educational technology should inevitably be coordinated into study halls and educational program. With the coming of educational technology in the study hall instructor, education is looked with the test that educators incorporate educational technology in their day by day work. Various investigations have demonstrated that few instructors is ready to integrand educational technology in their teaching exercises. The reason is that there are two categories of instructors in the comprehension of educational technology.

For a superior comprehension of educational technology requires a lot of software engineering, instructional method, psychology, computer science and informatics. The knowledge educators have is adequate for an essential utilization of instruction technology. In any case, educational technology is one major framework. Above all else, educators have an essential knowledge of the utilization of educational technology. It takes undeniably increasingly proficient preparing through an assortment of conferences, courses, proficient writing, classes... so as to show signs of improvement knowledge in the utilization of educational technology. The truth of the matter is that under utilization of educational technology, principally because of poor school equipment important assets, insufficient information and knowledge of instructors and the lack of intrigue and lack of inspiration of educators to utilize them. Educators must be spurred to utilize the equivalent on the grounds that the utilization of educational technology in teaching furnishes better interaction with students, better gathering of information in light of the fact that the students get knowledge visual, auditory and sensation way. In addition to other things, an educational technology rouses students to work autonomously where the understudy is progressively spurred to return to learning and working since current technical equipment is generally accessible at some random moment.

### COMPUTER-AIDED ASSESSMENT

Computer-aided appraisal (e-evaluation) ranges from computerized different decision tests to progressively complex frameworks. With certain frameworks, input can be geared towards an understudy's particular missteps or the computer can explore the understudy through a progression of inquiries adapting to what the understudy seems to have learned or not learned. The best precedents pursue a formative appraisal structure and are classified "Online Formative Assessment". This includes making an initial formative evaluation by filtering out the incorrect answers. The creator of the evaluation/educator will at that point clarify what the understudy ought to have finished with each inquiry. It will at that point give the understudy somewhere around one practice at each slight variation of sifted out inquiries. This is the formative learning stage. The following stage is to make a summative evaluation by another arrangement of inquiries just covering the themes recently instructed. Learning configuration is the kind of movement empowered by programming that underpins groupings of exercises that can be both versatile and community. The IMS Learning Design determination is planned as a standard configuration for learning designs, and IMS LD Level An is bolstered in LAMS V2.e learning and has been supplanting the traditional settings because of its cost effectiveness.

## ELECTRONIC PERFORMANCE SUPPORT SYSTEM

An electronic act emotionally supportive network (EPSS) is, as per Barry Ray bould, "a computer-based framework that improves specialist productivity by giving on-the job access to coordinated information, advice, and learning experiences". Gloria Gery characterizes it as "an incorporated electronic condition that is accessible to and effectively available by every representative and is organized to give guick, individualized on-line access to the full scope of information, programming, guidance, advice and help, information, images, apparatuses, and evaluation and monitoring frameworks to allow work execution with insignificant help and intercession by others." Student information frameworks significantly affect instruction and students. Over-the-counter information (OTCD) alludes to a structure approach which includes embedding marks, supplemental documentation, and an assistance framework and making key bundle/show and substance decisions.

### BENEFITS

- Student motivation: According to James Kulik, who examines the effectiveness of computers utilized for instruction, students as a rule adapt more in less time while getting computerbased instruction and they like classes more and develop progressively uplifting mentalities toward computers in computer-based classes. Instructors must know about their students' motivators so as to effectively implement technology into the study hall. Students are progressively motivated to realize when they are interested in the topic, which can be upgraded by utilizing technologies in the study hall and targeting the requirement for screens and digital material that they have been animated by outside of the homeroom.
  - In 2010, 70.3% of American family families approached the web. In 2013, as indicated by Canadian Radio Television and Telecommunications Commission Canada, 79% of homes approach the web. Students can get to and draw in with numerous online assets at home.
    - Using on the web assets, for example, Khan Academy or TED Talks can enable students to invest more energy in explicit aspects of what they might realize in school, however at home. These online assets have added the opportunity to take learning outside of the study hall and into any air that has a web connection. These online exercises take into account students who may require additional assistance to comprehend materials outside of the study hall. These instructional exercises can concentrate on little concepts of expansive

thoughts educated in class, or the different way. Schools like MIT have even made their course materials free on the web with the goal that anyone can get to them. Albeit a few aspects of a study hall setting are missed by utilizing these assets, they are useful devices to add extra help to the educational framework.

- Improved student composing: It is helpful for students to edit their composed work on word processors, which can, thus, improve the quality of their composition. As indicated by certain investigations, the students are better at critiquing and editing composed work that is exchanged over a computer connects with students they know.
- Studies finished in "computer intensive" settings discovered increments in studentdriven, agreeable and higher request learning, students composing abilities, critical thinking, and utilizing technology. Furthermore, inspirational mentalities toward technology as a learning device by guardians, students and instructors are likewise improved.

# THE ROLE OF EDUCATIONAL REFORM IN TECHNOLOGY DEVELOPMENT

The role of technology in the domain of training has been regularly developing. Most starting late, technology has been another marvel to help stir, independent, and empower students to achieve and surpass desires in manners that they have never had the ability to. As shown by Johnson (2003), the computer and technology, at whatever point utilized precisely, can "invoke dream in the cerebrums of visionary instructors who saw wearisome potential for modifying traditional contemplation of teaching and learning". Two past presidents saw the requirement for fundamental change in training to keep American students in rivalry with technology with various students from around the world. In 1994, President Bill Clinton denoted The Goals 2000: Educate America Act. There were numerous bits of this bill involved technology and instruction. Part C of The Goals 2000: Educate America Act, Leadership in Technology, (a) calls upon the Department of Education to create a national approach to incorporate technology into each and every educational program and the state and local educational frameworks, (b) encourage appreciation of how technology can be utilized to improve teaching and learning, (c) show how technology can be utilized to create an equivalent opportunity for all students to be effective while meeting state training requirements, and (g) create brilliant master training opportunities for instructors with the ability to facilitate technology into their instruction.

The goal of Part D of the No Child Left behind Act was to improve student academic accomplishment utilizing

technology. The focal issues of Part D, Enhancing Education through Technology Act of 2001 incorporate, (a) help to states for the implementation of technology into schools, rudimentary and discretionary, to advance and encourage student insightful accomplishment, (b) set up and develop technology exercises in regards to access to technology, (c) help for acquiring of technology, which fabricates the proportion of students who have accessibility to technology, (e) capable development exercises for instructors and administrators, (h) supports for undertakings to incorporate families in training and to help in communication. The No Child Left behind Act also attempted to diminish the digital division among students and to in like manner utilize best practices while integrating technology with instructor getting ready to set up research-based instructional strategies.

## THE EFFECTS OF ET ON ACHIEVEMENT AND PERFORMANCE OF STUDENTS

Past examinations revealed the positive impact of technology on updating the achievement and performance of students and in gaining significant improvement and changes in all locales. For instance, Kulik (1994) amassed 500 individual research examinations of computer based instruction students. The results of the complete demonstrated that students who utilized computer-based instruction scored better than those in the control condition without a computer. Students moreover increased more knowledge in less time in light of the fact that the classes ended up being dynamically enjoyable and interesting after the presentation of computers. Correspondingly, Sivin-Kachla (1998) found that students concentrating in a technology rich condition achieved higher checks in each part of knowledge, grabbed a positive mentality towards learning, had the ability to generate new musings and created confidence. The US Department of Education coordinated an intelligent report in 2001 to assess the impact of technology utilizing two sorts of student achievement measures – measure assessed achievement and assessed examining math achievement. A significant impact was revealed in the students' scores. Likewise, in an examination coordinated in Pittsburgh, in which an intelligent guide – programming used to support the educational modules - was utilized as a part of the customary educational modules for ninth-grade variable based math. The results of the examination demonstrated that 470 students in the experimental classes outperformed students in compression classes by 15% on a standardized test and 100% on test targeting the educational projects focused goals (Koedinger et al., 1999). Late examinations coordinated by Banerjee et al. (2005) found that by integrating the number juggling educational projects with ET, the science scores of the fourth-grade students in Vadodara, India were extended. Besides, Barrow et al. (2009) separated the impact of an instructional pre-variable based math and polynomial

#### Journal of Advances and Scholarly Researches in Allied Education Vol. XI, Issue No. 22, July-2016, ISSN 2230-7540

math program on student's test scores in the US. Rutz et al. (2003) dissected the impact of utilizing instructional technology on upgrading the learning styles and method types. They found that utilizing electronic material to upgrade the in-class experience can improve student achievement.

### TECHNOLOGY'S EFFECT ON STUDENT ACHIEVEMENT

The accompanying investigations have been recommended by individuals from the NCSL Education Technology Partnership as concentrates that show expanded student achievement as a result of utilizing technology. Obviously, likewise with every single educational intercession and practices, an authoritative connection between computer use and student achievement is trying to recognize and evaluate since the connection may rely upon how the technology is utilized just as on how achievement is characterized and estimated.

Early investigations looked to comprehend the impact of general computer use on student achievement. One vast examination directed in 1994 found that, by and large, students who utilized computer-based instruction scored at the 64th percentile on trial of achievement, contrasted with students in the control conditions without computers who scored at the 50th percentile. In spite of the fact that computers did not have a positive impact in each region in which they were examined, students who utilized them learned more in less time and announced making the most of their classes more. A comparative report from 1998 found that both ordinary and exceptional needs voungsters in technology rich conditions experienced positive consequences for achievement in all real branches of knowledge in preschool through advanced education. The research notes, nonetheless, that the dimension of effectiveness of educational technology is influenced by the particular student populace, the product structure, the teacher's role, and the dimension of student access to the technology.

An examination that controlled for both earlier achievement and financial status found that fourthgrade students who detailed more noteworthy recurrence of technology use at school to edit papers were probably going to have higher all out English/language expressions test scores and higher composition scores on fourth grade test scores on the Massachusetts Comprehensive Assessment Systems English/Language Arts test. An investigation that thought about student test scores on composing and exposition tests found that those students who utilized a computer to step through the examination performed significantly superior to anything the individuals who stepped through the exam utilizing paper and pencil. About 70 percent of the students who took the computer-based test performed "satisfactorilv" contrasted with just 30 percent of students who stepped through the examination utilizing paper and pencil. The writers propose that, for students who have been accustomed to composing on a computer for just a year or two, evaluations of student composing abilities dependent on responses composed by hand might be substantial disparages of their abilities to compose when utilizing a computer.

### SPECIAL NEEDS & TECHNOLOGY COMPONENTS

Additionally, students with explicit learning disabilities can profit by the utilizations of modern technology too. For this gathering, there is no single basis or trademark 18 that can be utilized in categorizing students that have been determined to have explicit learning disabilities. In 1997, the U.S. Congress reauthorized the Individuals with Disabilities in Education Act (IDEA), necessitating that all students with disabilities be considered for assistive technology. As a push to improve every single educational field, IDEA (1997) opened technology to all students with disabilities including specialized curriculum. As indicated by the U.S. Bureau of Education (n.d.), IDEA shows that an assistive technology gadget is anything, bit of equipment, or item framework, regardless of whether acquired commercially, off the rack, changed, or tweaked, that is utilized to increment, keep up, or improve functional capabilities of people with disabilities.

As the field has now developed, six categories of a specialized curriculum technology have been developed as recently recorded by Blackhurst and Lahm (2000). These categories include: the technology of teaching deliberate strategies for teaching, for example, connected conduct analysis; assistive technology extraordinarily structured gadgets expected to make the earth available: restorative technology, machines intended to help individuals with one of a kind medicinal issues; technology productivity apparatuses; information technology; and instructional technology. Despite the fact that there are a few regions of a specialized curriculum, assistive technology has been ordered to furnish each enlisted student with the vital devices for advancement. The government necessitates that each student considered for position in a custom curriculum additionally be considered for assistive technology and assistive technology administrations. А few zones of arrangement with the utilizations of assistive youngsters technology incorporate with the accompanying recorded clutters.

Students everything being equal and grade levels are presented to technologies day by day. All the more regularly students can work segments with practically no headings. As an indication of this digital age, students are not scared by these electronics; however welcome the new innovations as a supporter of their day by day method of learning. Students of all learning dimensions (talented/PACE, extraordinary requirements, and customary/general taught)

approach mechanical parts, educators just as advisors to help them in winding up scholastically solid. Advisors likewise add to the achievement of students. Technology has influenced the curricular plan and foundation of the directing project and has given better approaches to exhort and manage students in a proficient, effective, and moral way. Advocates additionally use technology to finish tests. assessments and school getting ready for students. They use the school's database to assess singular student needs just as those with uncommon necessities.

### DISCUSSION

In spite of the fact that technology influences quality of learning as students' taking progressively dynamic roles in the learning procedure, teachers' showing course content in a variety of formats, students' and teachers' utilizing methods that perceives a variety of learning styles, conveying more extensive cluster of assets to the homeroom, stimulating reflection and basic reasoning, expanding existence limits of the study hall, facilitating community oriented and helpful learning and so forth., (Teaching and learning with technology: Promises and Pitfall, integration of technology is a moderate procedure). Really integration technology into teaching and learning is a moderate, tedious procedure that needs substantial dimensions of help and encouragement for instructors. Indeed, even in technology poor-schools the procedure takes significantly more. Technology integrated into homeroom may give teachers teaching of dynamic concepts and critical thinking just as essential aptitudes, free work, cooperation and community oriented request, adjustment of instruction to accommodate students learning styles and exceptional needs, higher desires for students and introduction of increasingly complex materials, less instructor addresses, more student-focused study hall. However; it is astounding to perceive what number of teachers doesn't utilize technology by any stretch of the imagination. At the end of the day, while a few teachers have natural proclivity toward utilizing technologies, others don't. A few teachers may embrace changes all the more effectively yet others oppose it.

Before the technology is integrated in the homeroom, the educational objectives for students ought to be resolved. Since as Cuban states just with obviously decided objectives would educators be able to be intelligent about the amount they need to spend for what reason and under what conditions. In the wake of deciding objectives, it is critical to give Professional development to teachers to enable them to pick the most appropriate Technologies and instructional strategies to meet these objectives. Therefore teachers must be offered training in utilizing computers however their training must go past that to the instructional strategies expected to infuse innovative abilities into the learning procedure. As such, teachers need continued help in the utilization of the technology as well as in their efforts to incorporate technology into the educational modules. As Baker accentuates assessment is an arranging instrument that ought to be considered toward the start of any technology. Since the general focal point of assessment estimates will be important to assess student learning results. These assessment is difficult to set up in light of the fact that it is identified with the unpredictability of technology integration, the trouble of inferring significant information about complex cognitive processes from direct observation and the rate of technology development that provokes evaluators' abilities to keep pace.

These issues talked about above are significant in integrating technology to improve student achievement. Educational technology isn't, and never will be, valuable all alone. Be that as it may, if decisions are made deliberately remembering these factors, technology can give significant benefits in making new circumstances and opportunities for rich and energizing learning.

There is no uncertainty that technology will dependably be scrutinized. Some trust that technology lessens student-student engagement in dynamic investment. Others trust technology lessens significant human contact. Yet, as an end articulation, one can presume that effective utilization of technology can have distinctive scrutinizes relying upon individual gualities and points of view of what is great and terrible in learning. The two most significant factors which meet the analysis of technology use in learning and teaching are to have teachers with aptitudes and knowledge about appropriate and effective utilization of technology and furthermore integrating these abilities knowledge into educational modules and utilizing them in agreeing with knowledge about learning to make students learning progressively comprehensive and authentic.

## CONCLUSION

Instructors, approach creators, quardians, and individuals wish to amplify network student achievement in the United States in science, arithmetic and numerous different orders. Τo accomplish this objective, both assessment of learning and assessment for learning must assume significant roles. Computer-based statewide testing programs, reliable and valid proportions of student and comprehensive information learning, the frameworks executives that encourage the progression of information between partners support the objective of assessment of learning. Assessment programs sensitive to the requirements of students in both the regular and specialized curriculum populaces give understanding into student learning after some time and start our efforts toward assessment for learning. Developments, for example, associated study hall technologies, nonetheless, offer more prominent potential for improved formative

assessment for study hall teachers on the cutting edges of assessment for learning.

In spite of the fact that research that looks to comprehend technology's impact on student achievement will require progressing exertion, existing proof is convincing that, with effective implementation, technology can prompt improved student results. Policymakers might need to consider their very own role in ensuring that training technology activities are adequately assessed to draw exercises from emerging and developing strategies. In spite of the fact that the uniqueness of each school and study hall circumstance will dependably should be considered, the accumulation of research proof after some time and crosswise over investigations ought to give steady discoveries that improve comprehension of the role of teaching and learning with technology.

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