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AN IMPACT OF DIGITAL TECHNOLOGY ON ACADEMIC SECTOR

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ABSTRACT

The aim of this review is to present an impact of digital technology on academic sector. While India has made extraordinary walks in enhancing the educational framework however much still stays to be finished. Role of technology in education sector was formerly a questionable issue in general. People had their own particular perspectives on modernizing education and making it innovation supported. But, relentlessly as innovation was grasped by the academic foundations, they realized the significance of innovation in education.

Its achievements and favorable impact have exceeded the negativities and now, with the contribution of technology, education sector has evolved as a new concept and its structure has witnessed a transformation attributable to the innovations in technology. Technology and education are a great blend if utilized collectively with a right rationale and vision. The goal of this paper is to outline how information technology can help to create an effective and innovative education system with its news tools and techniques apart from chalk and talk method.

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INTRODUCTION

Technology in Education, which is moreover known as digital - learning, instructional technology and learning technology, is the employ of technology in support to the learning process. In the world that we presently survive in, technology has become a very crucial factor. With each passing day a new concept in software or device is being launched into the market that progresses our lives in one manner or another and makes it much convenient. Technology is progressively gaining its importance in the education sector. The more the technology gets advanced, the more beneficial it is for students at every educational level. Education technology means making use of all kinds of new tools and materials for maximising the learning experiences. Previously, academicians used to adopt firm, formal and stereo-typed procedures. Education was then perceived as the practice of transmitting knowledge and ideas. Student used to memorise whatever was given by the teacher or textbook. Scenario has changed a lot from then, students are no longer considered as empty minds to be filled in with theories and figures. Technology has raised a new level, by bringing a change not only in different levels of computers or systems in comparison to the present ones and the same is the case of mobile phones which advanced more and more from 1995 till now they are as good as small computers, again a remarkable and drastic change of technology but for the good. Thereby if

there can be a change in computer technology and mobile technology, much will be impacted by change in educational technology.

Terminology of technology in education

Technology in Education is the study involving digital-learning, which inculcates improving performance by utilizing suitable technological processes and resources. Educational technology refers to a particular approach to achieving educational motives.

It relies on the word "technology" which employs the significant tools and sources to enhance and develop the skill of education. In deeper sense Educational technology relates to innovations which characterize the education system by encouraging communication, conveying learning materials, or giving appraisal and input, or in any other way. Few utilize the concept technology to signify hardware whereas those from the academic background use the concept of educational technology to refer to the methodical use of technical means to solve problems and elaborate practices.

Educational technology is an organized and structured process of applying new techniques to develop the superiority of education .It is a methodical process of conceptualizing the

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execution and evaluation of the educational process from the traditional chalk and talk method to virtual materials and tools.

When using educational technology primarily focus should be on the educational importance of the tools and applications we use, how adequate they are in the acquisition of knowledge, whether there is an interface between users and tools, and if we have positive consequences in using them.

Technology less education V/s Educational Technology

Educational technology has made the availability of learning matter globally and without any time limitations, while traditional teaching is held at a particular period in a particular location and repetition or revision of which is a difficult task. Scholars using educational technology can also avail the resources in a way suitable and return repetitively to a particular source, the pace of the learning process is not determined by an instructor as it is with traditional classes. Technology also offers a variety of ways to deliver learning and the learning experience is unique for every learner.

Technology assists in making the process of learning livelier than in traditional education.

Technology less education is a bit of traditional in a sense because it does not stimulate or awakes all the sensory behaviour as it is being done in educational technology, which majorly focuses on creating an interest in the subject matter through the usage of technology and tools. The former one cannot be updated frequently as the later gets updated with the advancement of technology and day to day new innovations in technology in different sectors. Communicative, multimedia content provides a great deal of benefit to present learning over traditional learning

Benefits of Information Technology in Education

The arrival of huge quantity of technology has indeed impacted the classroom from the youngest level to college and beyond. New technologies and tools emerge and there is more every day. There has not been only the increase in diversified technologies but also the level of effectiveness has made technology more integrated and affordable. This has led to the opening of new doors and options and takes teachers and scholars down new avenues of learning. The future of education is almost unbelievable, and the possibilities are boundless. Education sector will always benefit from the technological innovations not only the educational curriculum gets advanced but the scholars too get developed mentally and become mere presentable with the new techniques in this competitive market. It encourages inventive philosophy which provokes managing complications and creativity. It induces scientific, technological, information and multicultural literacy and global awareness. It promotes inventive thinking. With the application of educational technology we get feedback between the teacher and the scholar. It also encourages a sense of utilizing innovative tools with effective, appropriate, and superior class results.

With the proper utilization of educational technology, learners can independently progress in gaining knowledge of teaching materials, to select the pace of work, to repetitively revise the texts not clear, to continuously get the results of the tests performed and regularly tracking the progress

Impact of Information Technology in Education

With the progressing advancement in the technological world, scholars are getting enhanced access to such educational opportunities. Every time something 'better' and 'innovative' is brought into the market, the cost of the already existing technology in the market is reduced which in turn increases the accessibility in the educational settings even to those schools that might not have sufficient financial resources available to them.

Influence of the educational technology has created a positive impact on the minds of scholars and resulted into talented and intellectual products for making the world more impactful.

Scholars are now no more restricted to using a piece of paper and a pencil or pen, but in spite have a unique online settings in which they can communicate what information they have been able to collect, internalize that data, and then incorporate and pen down it into their assignments notes.

Though the majority of impact has been positive but there is always an other side of a coin, in the same way technologically advanced education too has some negative repercussions, which is damaging the root level of the upcoming talents, it includes

- **Copy and paste disease**—It has been found Often, students just copy pieces of information on a particular matter they are allotted to work that appears significant to them and paste them together, without sometimes even thinking and reading the context
- **Misrepresentation of reality** – searching on search engine sometimes provides many search results, which in short endangers their ability to think and generate thoughts of reality.
- **Too much trust in the information found** – Searching the information on internet does not mean the information found is trustworthy to accept, without having proper justification for the same.
- **Loss of privacy and profiling** –To some extent privacy of the scholars is also at risks by fully relying on different websites and providing the information asked the service provider, in search of certain information.

Innovations of Technology in Education

Latest technological innovations which are being incorporated as part of educational technology for imparting and delivering the educational content to scholars include:

- **Technology used for Distance Learning:** The technology in education has reached to a level that quality knowledge can be gained from long geographical distances. Starting from tiny tots to college graduate learners are using the technological software and hardware to access classrooms that would not otherwise have been possible.
- **PC in the classroom:** Having a computer with high quality projector screens in the classroom is an advantage to any academician, which aids in demonstrating the new lessons practically, illustrates how to use new tools, and show new information on websites.

- **Class blogging and reference to Wikipedia:** variety of Web tools and applications that are currently being implemented in the classroom. Blogs allow for students to maintain a running dialogue, such as periodical, thoughts and ideas.
- **Wireless classrooms aided microphones:** Noisy classrooms are being replaced with microphones aided classrooms to provide a personalised way of delivering the lectures and the same can be individually heard by them without any disturbances.
- **Digital video-technological advancement have led to the usage of:** Digital video in the teaching and learning process which helps in giving live example to learners.
- **Online Tools:** Live audio and video websites can be utilized to enhance a classroom lesson.
- **Live learning devices:** Tools that motivate studying by making learning more fun loving process
- **Digitalised Games:** The field of educational games has been growing significantly over few years providing an extended aid to teaching learning process.

Challenges of use of Education Technology

Though the revolutionized era has led to the early implementation of technologies in Education system, still there are problems for the proper implementation and execution of the new technologies in education. Some of them are:

- Availability of limited access to computer software and digitally advanced technologies in education institutes.
- Lack of planning for time in the hectic schedule of education centres for projects involving use of technologies.
- Deficiency of adequate technical support from educational institutes.
- Lack of trained and proficient scholars and academicians to get adapted to the new technologies.
- Integration of educational technology is not a priority.
- Lack of technological provisions and infrastructure to the scholars and learners to explore new things.

CONCLUSION

Technology to a great extent reduce the incredible hard work contributed by students to gather unlimited written books and journals for acquiring knowledge and boost students' focus on more important knowledge collection process.

In order to train scholars to be life-long learners and leading contributors to the new global market, academicians must modify the way they deliver and the way scholars learn the same. We need to remember that if we want to help scholars attain a high level of proficiency and attitude, we have no option but to make technology an integrated tool in the field of education Technology thus signify education in ways that help students understand newest concepts and facts. Education Technology facilitates teachers to integrate project based learning. In today's scenario the role of a teacher is like a facilitator. The teacher needs to facilitate the process of learning by providing students with operations of technology.

With the help of new technology comes a flood of learning and receiving new information, especially on cell phones and handy devices. By introducing it into our education centres, it is needed to ensure that the learners are well equipped with better tools and knowledge to shift their paradigm from learning place to the work place a very easy and convenient.

The role of technology in education is crucial, and the issue is no longer technology is enhancing learning, but rather how to improve our utilization of technology to augment learning. Technology can assist teachers in performing their jobs properly by giving scholars a guidance to further develop their skills and expertise, go beyond learning what once was thought impossible. Technology has thereby has created an innovative world of its own so that everyone can have accessibility to the education of the universal classroom. It is applicable at all levels of education. This has had the great benefit of enabling a graduate student to achieve their master's degree or higher studies in their "spare" time, as well as extending the reach to the students who have physical or geographical hindrances and restrictions through this technological advancement.

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