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Impact of technology utilization in education

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Abstract
Nature is a gift of God as like technology is also a gift from god, which is very useful and helpful in many ways such as personalizing learning, technology empowers student by providing them ownership of how do they learn, making education relevant to their digital lives using technology and access to resources beyond the classroom walls. Now a days, students were inspired by problem-solvers, collaborators, creators and critical thinkers or design thinkers and they also wants to become as like them in their future. Students love towards learning can be increased by integrating the technology into the classrooms successfully. Modern technology helps to focus the students towards the education easily. The field of education has revolutionized by technology. The process of teaching and learning is more enjoyable by the faculty and students with the help of technology.

Keywords: Modern technology, education, learning, teaching

Introduction
The 21st century is frequently seen as a technological period. The way humans learn could be drastically changed by technology. Learning in the classroom is altered by technology. The surrounding walls and cement no longer physically bind students (Arumugam. K) [1]. It may strengthen and deepen the bonds between teachers and students, reimagine how we collaborate and learn, close long-standing equity and accessibility gaps, and modify educational experiences to fit the needs of all learners. Efficiency must be increased, and this requires both flexible administrative and learning processes and cost-effective technologies (Krishnaveni R) [2].

Technology in education
The technical world has seen a significant change in recent years. As more individuals use digital media, educators must use the most recent tools available to engage students. Innovative teaching methods and the introduction of fresh concepts are essential for keeping students interested in their lessons. Teachers must now employ instructional technology because of how important it is to the modern educational landscape. Using technology today can benefit students in the following ways.

Internet Connection
Over the past ten years, the importance of the internet has multiplied greatly. Its significance in the field of education cannot be overstated at this point (Raja. R) [3]. There have been several changes in the education sector in recent years as a result of the availability of high-speed broadband internet and the surge in demand for alternatives to traditional learning methods. Any efficient online education infrastructure must have quick access to a high-speed and dependable internet connection. The urban community is typically better prepared to use the internet for education since they have easy access to the essential infrastructure. However, social and economic barriers in rural regions limit their access to online education. For students of all ages, the internet offers a wealth of information outside of textbooks. There are now several online learning platforms available to help students who are facing resource limitations. Even the exchange of course materials amongst students in different countries is made possible by these platforms.

Google classroom
The Google application for education is a piece of technology that has been created to support cooperation and information technology across a range of educational levels. One of these is a programme called Google Classroom that is utilised by lecturers, professors, and

students. Google Classroom is a free online learning environment that enables participant interaction, presentation, and viewing of videos. Due to its compatibility with a wide range of platforms, including desktop and mobile browsers, Google Classroom is more accessible to both students and teachers. Google Classroom exposes pupils to an internet platform. Nowadays, enrolling in at least one online course is a requirement for many college and university programmes. Students may move more easily onto other learning management systems used in higher education if they have experience with Google Classroom. The classroom saves a tonne of time. Teachers will have more free time to perform other activities because all resources are kept in one location and can be accessed anywhere. Teachers and students can engage using their phones or tablets since classroom can be accessed from a mobile device.

Cloud computing

Cloud computing, more than any other technology, opened the door to high tech education. It was able to access courseware and instructional content from any device and from anywhere thanks to the information's anytime, anywhere accessibility that was saved on remote cloud servers of the applications. The practise of running a programme or application over a number of computers linked by a network is known as distributed computing, and cloud computing is an extension of this idea. The Internet makes this procedure accessible to even the average user (Yadav. K) [4]. Continue reading a book while working on your assignments with other students and teachers at anytime, anywhere, and using any device. Cloud-based educational apps not only made it simple to collaborate and access content, but they also addressed the issue of data storage.

3D printing

Prototyping, another term for 3D printing, enables students to learn via a more concrete and tactile experience. Thanks to 3D printers, a student may quickly mould his notion of an object. Students may materialise their imaginations through the use of 3D printing. The use of 3D printers in educational settings will only encourage students to express their creativity and get more practical experience.

Robotics

Robotics is a developing topic that has the potential to have a big influence on how science and technology are taught at all levels (Alimisis. D) [5]. Without discussing robots and their importance in contemporary society, science schools today would be impossible to imagine. Students learn the fundamentals of programming while building a variety of personal skills by building and programming robots (teamwork, critical thinking). Robotics-related content becomes more difficult as one's school level rises, allowing for the steady development of the abilities one will need for a future professional employment.

Smart classroom

Classrooms must be technologically advanced to support the modernisation of education. IWB usage combines the capabilities of a standard board with extra tools to support interactive and constructivist teaching and learning (manny-ikan). There are many technological aids to teaching, but computers, tablets, projectors, and software that links them all together into a cohesive whole are undoubtedly the best place to start. Practically no academic subject may be learnt with multimedia lectures if the lectures are well-designed.

Learning Management System

A learning management system (LMS) is a piece of software or web-based technology that is used to organise, carry out, and evaluate a particular learning procedure. An instructor may often design and distribute content, track student involvement, and evaluate student performance online using a learning management system (Alias, N. A). The system facilitates both in-person and online learning. Additionally, it promotes communication, monitors development, and captures all significant student data. It supports the needs of the students as well as the instructors' productivity. Overall, the approach is helpful to all parties engaged in the instructional process.

Importance of technology in education

Technology is frequently viewed as a tool to promote learning and collaboration on college campuses in response to ongoing demands to improve the quality of higher education in an increasingly digital environment. The present generation of college students has grown up with technology, making them some of the first to adopt brand-new technological advancements (Brcka Lorenz. A). In every aspect of life, including interpersonal interactions, the business, and even the entertainment industry, technology has brought about dramatic changes. Students appear to be dealing with changes that not only fundamentally affect how they study more than ever before. The enormous influence that contemporary technology has on future generations of pupils cannot be denied.

Advantage of technology in education

- Improves the interaction between students and teachers during the teaching and learning process.
- Offers unrestricted access to current data and information from numerous sources.
- Teaches children to use technology.
- Lowers the price of education.
- Improved understanding of student’s performance due to metrics.
- They have the option of real time learning or individualised.

Disadvantages of technology in education

- Both within and outside of the classroom, it is distracting.
- Potentially retards cognitive growth and weakens problem solving abilities.
- Reduced teacher numbers as a result of automation and lower pay.
- Examinees can cheat more easily.
- Modern technology maintenance is higher pricey.

Conclusion

All technological applications used in the educational process are referred to as educational technology. It comprises all of the IT-related tools, systems, and resources used in education as well as research into and developments in TADL. Innovations in educational technology are enabling millions of additional students to enrol in courses

while also enhancing the learning experience through experimentation and data analysis.

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