



Importance of ICT in Higher Education in India

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Abstract: New tools include computers, satellites, the Internet, and wireless technologies. It exists in many forms such as audio, video, images, and text. It deals with the latest technology and an arsenal of simple audio-visual media such as slides, radios, cassettes, and films. Today, information and communication technology is the only one, and therefore the category of technologies is further expanded to include computers and related products, e-mail, MMS, and other forms of communication. Currently, we do not need to leave our home or even our room to see any form of ICT in our lives, be it computers, plasma TVs, or mobile phones. We all have them in some part of our life. In modern society, everyone as ICT consumers is fighting for one dream: the dream of living together. After the Corona epidemic, information-technology-based education gained a lot of importance. Due to information technology, the whole world started to feel like a village. In this research article, the article is presented based on secondary information.

Keywords: Audio-visual media, computers, communication technology, ICT,



Introduction: ICT is an acronym for Information and Communication Technology. As the name suggests, these are tools for information management, as well as for the production, storage, and distribution of information. ICTs are made up of old and new tools. Old instruments include radio, television, telephone. New tools include computers, satellites, the Internet, and wireless technologies. It exists in many forms such as audio, video, images, and text. It deals with the latest technology and an arsenal of simple audio-visual media such as slides, radios, cassettes, and films. Today, information and communication technology is the only one, and therefore the category of technologies is further expanded to include computers and related products, e-mail, MMS, and other forms of communication.

Importance of ICT In Education

Currently, we do not need to leave our home or even our room to see any form of ICT in our lives, be it computers, plasma TVs, or mobile phones. We all have them in some part of our life. In modern society, everyone as ICT consumers is fighting for one dream: the dream of living together.

This makes ICT a lifestyle choice for a large segment of the population. In addition, these lifestyle choices change the way we communicate, increase consumption, and change the way we interact and collect information.

ICTs have permeated and changed many aspects of our lives. The aspect of our life when we live in an environment is dominated by technology consumers (Semenov, 2005). No matter how we perceive their presence, it cannot be denied that it is an important part of our life and is here to stay.

Education and Information Technology

The field of education is an industry of constant technology innovation. With the tools IT provides, teachers and professors can deliver information more dynamically than ever before. Perhaps the biggest advantage of this is being able to reach more students, especially those who can't afford or devote the time to a degree program or those who live too far away from schools or college campuses.

One way IT expands the reach of education is through online classes and degree programs that students can complete remotely. While the University of Phoenix adopted this approach back in 1989, students attending school and obtaining a degree fully online from major universities are still a relatively new phenomenon.

Educators also support the importance and use of IT as a delivery method for their curriculum. 81% of teachers say they see significant value in using digital learning tools in the classroom and online. Additionally, 57% of them believe that IT and the use of digital learning tools help personalize instruction and learning and that these digital learning tools effectively engage students.

Such engagement is improving as newer technology, devices, and software improve. Technology is becoming smarter, allowing for the inclusion of those who might not do well in or can't afford to be in a regular classroom environment, such as students who are on the autism spectrum.

Virtual Reality (VR) and Augmented Reality (AR) are both becoming mainstream and more accessible, so educators plan to incorporate these technologies into their curriculum. New

technologies like VR and AR have received positive responses from students and educators, with educators saying that students find that they're creatively more stimulated, information is more easily retained, and the coursework is more engaging.

advantages of ICT in education are:

1. Cost Efficient -

ICT helps the school to save money by reducing the training and development costs of the school staff. Training material can be stored, shared, and distributed online which reduces extra expenses. Video materials and video conferencing for training can easily reduce travel costs. ICT is a cost-effective tool to communicate and easy to use platform for teachers and students. It helps in the reduction of educational costs. ICT tools for learning are affordable.

2. Improves communication between teacher and students -

Information and communication technology enhances and supports the delivery of information. ICT helps the teachers to interact with their students in the classroom. Students can easily share their feedback and doubts using ICT.

3. Improves Engagement -

ICT in education improves engagement and knowledge retention. ICT is integrated into their courses which helps the students to remain more engaged in their work. ICT in education boosts engagement resulting in better information retention. Students will be able to retain information more effectively and efficiently.

4. Collaboration -

ICT tool in education allows effective collaboration. This tool connects teachers and students. Teachers can create online collaborative groups to communicate with students and their parents. Teachers can share study materials and lessons through these groups. A collaborative group encourages students to work and learn together to study and explore the subject.

5. Improves productivity in the classroom -

The proper use of ICT in teaching and learning increases educational productivity. ICT strengthens the teaching and learning skills, it increases the productivity of teachers and

students. ICT tool helps the teacher to create a more "learner-centric" learning environment in the classroom. The process of teaching and learning becomes easy using ICT which boosts the creativity and productivity of teachers and students.

6. Better teaching and learning methods -

ICT helps to provide more and better educational content. ICT increases learner motivation and engagement by providing the acquisition of basic skills. ICT tool enhances teacher training and ultimately increases the quality of education. Technology-based teaching and learning in the classroom help students to learn more. Students remain engaged and understand the lesson better using technology. Online teaching helps you save both money and time. Online courses using technology help students to learn concepts fast and easily, it saves money spent on traditional methods.

7. Supports teacher and students -

ICT tools help students and teachers to communicate in a better way which was not possible before. It supports teachers and students to discuss assignments, study material, and doubts in the most effective way.

8. Innovative teaching and learning procedures -

ICT in the classroom uses innovative tools to facilitate students learning experience. Students remain engaged and enjoy the learning with the help of new tools. Integrating new technology into school teaching enhances the learning process. Students can stay up to date about information and new content with the help of new tools.

9. Enhance interaction and motivation -

ICT tool in teaching and learning enhances interaction and motivation among teachers and students. Students show more interest in learning and hence commitment towards study improves. ICT tools such as interactive whiteboards and smartboards boost the learning experience in the classroom. Students remain motivated during studies because of Innovative ICT tools.

Objectives:

- Understanding the importance of information technology during the Corona pandemic
- How information technology is used while teaching
- To study the revolution in the field of education due to information technology.

Review of Literature:The topic of research is based on the nature of the importance of information technology in higher education. The research article related to that has been reviewed.

- Anchal Sharma, Education through ICT Initiatives during the Pandemic in India, this paper explores a few such initiatives that have played a key role in making education more accessible to the remotest parts of the country with the help of technology. The global crisis of the COVID-19 virus has had a profound effect on the Education Sector. It has presented the education community around the world with many challenges to continue the learning process. India's education system also faced an unresolved learning crisis during the epidemic. School closures across the country have impacted everyone's education. The epidemic has forced the industry to switch to a more visible and integrated learning path. Information and Communication Technology (ICT) has helped the industry to adapt and adapt to new forms of online learning. This problem has allowed various educational methods to flourish. Participants across the country were trying their best to come together and establish in various ways to support students and teachers.
- James Francis, The Effects of Technology on Student Motivation and engagement in Class-based Learning, NECS had a cohort of 348 students and a staff number of 65 at the time of the study. Participants in this research study were recruited from NECS members (students) voluntarily to take an anonymous survey. The seven-questionnaire survey was distributed in January and February 2016 to all NECS students' dormitories. Each student was given a copy of the study and an accreditation form, which was explained in detail. All students were then given a few weeks to complete the survey and respond anonymously by placing it in the designated mailbox. Find out in the analysis of the current state of technology integration and the idea that its usefulness has changed, cutting off communication between student and teacher can only grow bigger. A paradigm shift regarding the proper implementation

of technology in education is needed to ensure a successful 21st-century class and to establish students to succeed in their future careers.

Hypothesis:

- Information technology has gained great importance in higher education.

Research Methodology:

After the Corona epidemic, information-technology-based education gained a lot of importance. Due to information technology, the whole world started to feel like a village. In this research article, the article is presented based on secondary information.

Limitations:

- 1) The writing of this research article has been done on the basis of secondary information.
- 2) The work of understanding the importance of information technology has been done on the basis of available information.

Conclusion:

Information technology has brought about a huge change in the functioning of higher education. With the use of information technology, students can listen and watch lectures frequently. The use and importance of information technology are proving to be a boon for the learning process of the students. ICT eliminates time constraints in the education of students as well as teachers. Removes location barriers as students can enter from anywhere. ICT offers new forms of education. It can provide instant distribution of education for targeting disadvantaged groups.

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