



NEW VISION: INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) IN HIGHER EDUCATION

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Abstract: In an age of increasing globalization, technological advances can play a key position in meeting developing needs in higher schooling. This era of pervasive technology has big implications for higher training. Era lets in college students to emerge as much extra engaged in building their personal information. Inadequate sources, loss of good enough academic layout, group of workers, and other technological support troubles can hinder the adoption of recent technologies. Most agree with that era will become ever more interwoven into the material of educational lifestyles. The net and e-gaining knowledge of are providing a way for learners to get the right of entry to better training in new ways, anywhere, and at every time. Those technological tendencies have added opportunities and demanding situations that should be navigated carefully at the countrywide, local, and international stages as a way to maximize the advantages and decrease the dangers. UNESCO, as the best-united countries enterprise with a mandate in better schooling, has been lively in offering coverage aid to promote the availability of first-class teaching and mastering on the university stage. We engage with many types of higher training, from face-to-face to open and distance mastering, using various techniques. We've got always encouraged the improvement of better education that is relevant to human, social, monetary, and cultural needs. This paper is trying to make contributions to the goal of making sure that technology is used to assist the development of nice teaching and getting to know the benefit of all.

Keywords: ICT, Higher Education, Issues, Challenges & Innovations

1. INTRODUCTION

The tendencies in the use of electronic media have prompted all walks of life. Education is no exception to this. Using computer systems and the net for reinforcing the excellent of schooling with the aid of making getting to know extra relevant to existence has been visible as a great with the aid of academic establishments. ICT prove helpful in improving the quality and accessibility of schooling. ICT increases the ability of delivery of education in order that novices can access information every time and from anywhere. The enhancement of the statistics communication era is discovered in everything of the day by day existence. It's no longer simplest changed the basics of commercial enterprise, government or training however it includes each and every sphere of lifestyles. Better schooling has multiplied its importance in closing a long time as it's far helpful in meeting the demands of quality training in the gift situation. For economic boom and improvement of the kingdom, it's crucial to assess great schooling to all. The element has been accomplished to a great quantity because of advancements in the records communication era. In India facts verbal exchange era is taken as the transformation of education situation, as India is the developing United States has to stand quite a few demanding situations related to exertions, socio-monetary status, linguistic hassle, and so forth. And information communiqué technology enables those newcomers to acquire their training via distance or e-mastering. Similarly to this, distance or open schooling is also helpful to get entry to the faraway regions of the USA. It consists of life-long learning aspirations and its prices very low at an affordable charge. Higher education using information communication technology allows the learner to study at his own pace and in line with his own interests because it is extremely flexible, reliable, and valid. With no age restrictions and no inflexible or fixed classrooms, it allows learners of all ages to benefit from education.

2. OBJECTIVES

- To explain various importance of ICT in higher education.
- Discussing diverse issues and challenges of ICT in higher education.
- To discuss various innovations made through ICT in higher education.

3. IMPORTANCE OF ICT IN HIGHER EDUCATION

Higher education's stated aims can be attained with the use of ICT. Some of importance aspects of ICT in higher education are as:-

- **Learning At Their Own Pace-** Students can learn at their own speed through the ICT equipments. It makes the session very much interactive.
- **Time To Explore New Things-** ICT provides students time and space to explore new things according to their intelligence level and interest.
- **Active Participant In The Learning Process-** With having new method or teaching strategy learner pay more attention towards the content as he found it more interesting and attend the whole lecture with full participation.
- **For Making The Session Interactive-** It also helpful in making the more interactive as the content is interesting students has full participation, the course will be interactive.
- **Learning Collaboratively With Others-** Learning occurs with collaboration with others that inculcate moral values among them.

4. ROLE OF ICT IN HIGHER EDUCATION

ICT proves its effectiveness in every field of our life. It has its significant role in effectiveness of education such as:-

- **Cooperation & Communication-** ICT is primarily used for communication and teamwork when trying to alter education. ICT is viewed as a tool for collaboration and contact with others at any time and location, such as for parent-authority communication. It is suggested that tools like blogs, wikis, and video casting, which operate online and provide dialogue, editing, and publishing globally, enable flexibility.
- **Promoter and Facilitator-** ICT is frequently acknowledged as a facilitator or enabler for overcoming educational problems. For instance, they believe that ICT will help schools stand out and inspire pupils more. ICT is utilized to support innovation and transformation.
- **Access and resources-** Access has naturally always been a concern for ICT proponents. To support "self-directed" learning, however, ubiquitous access via students' laptops and wireless internet across schools, user-friendly portable devices and mobile phones, and the availability of digitalized resources through educational portals are all considered important.
- **Assessment-** ICT was promoting assessment as a way to broaden assessment to encompass various evaluation modalities and to increase the explicitness of assessment criteria and evaluation processes. In order to inspire students, boost their self-esteem, and aid teachers in their tutoring duties, e-portfolios were also recommended as a way to track competence development.

5. ISSUES AND CHALLENGES FOR ICT IN HIGHER EDUCATION

ICT proves itself very much effective in enhancement of teaching learning process's effectiveness. There are also some problems in implementation of its various components to higher education. Some of them are as follows: -

- It might cause a digital divide in the classroom because pupils who are proficient with computers will pick things up more quickly than others who are less tech-savvy.
- The Internet and Mobile Association of India (IAMAI) claims that the majority of government institutions lack suitable IT infrastructure, necessitating a sufficient number of tools for proper operation.
- ICT usage among students differs from that of their homes. ICT is frequently used in both homes and universities for a variety of objectives. Currently, the various usages are incompatible.
- It might cause learners to focus more on learning ICT skills than on learning material.
- The teacher-student relationship could suffer since face-to-face interaction isn't as important as using ICT as a communication tool.
- Experts are needed because not all teachers are proficient in using ICT.

- Its hardware and software are quite expensive.

6. INNOVATIONS OF ICT IN HIGHER EDUCATION

The tendencies in the use of electronic media have prompted all walks of life. Education is no exception to this. Using computer systems and the net for reinforcing the excellent of schooling with the aid of making getting to know extra relevant to existence has been visible as a great with the aid of academic establishments. ICT prove helpful in improving the virtue and availability of education. ICT enriches the ability to deliver education in order that novices can access informal Innovation in higher institutions.

- **Automated Grading-** Although it has not yet been fully developed, automated grading of written, unfastened-shape essays or short answers is quickly receiving attention as a new age in education. Automated grading uses artificial intelligence and gadget mastery techniques to calculate the statistical likelihood that an essay will receive a particular mark from a human grading it.
- **Electronic Textbooks-** Textbooks that can be read digitally on a computer, a phone, or an e-reader are known as electronic textbooks. They may also be referred to as digital textbooks, e-textbooks, or e-texts. Electronic textbooks may contain all or a portion of the printed text version. Additionally, some online textbooks could offer interactive materials, self-tests, or guided questions with rapid feedback. Online homework assignments, examinations, and quizzes are all examples of interactive course materials, which are typically the property of the publisher. Presentations by the instructor may also be included.
- **Simulation -** Simulation has several uses, including in video games, safety engineering, testing, education, and performance tuning or technology optimization. Simulation is also used in scientific modeling, such as in economics, to comprehend how natural or human systems function. Simulation can be used to show the potential effects of various situations and actions. Simulation is used in situations where the real system cannot be used, such as when it is unavailable, dangerous, or unpleasant to use, when it is still being developed but has not yet been built, or when it simply does not exist.
- **Gamification-** Particularly at the preschool and early standard school levels, many teachers frequently incorporate games into their lesson plans. Learning through games is not a brand-new idea. The phrase "gamification" has just recently gained widespread usage; it was initially coined by British IT specialist Nick Pelling in the early 2000s. With regard to the design of digital simulations for e-learning, gamification—which is regarded as a particularly particular kind of simulation technology—relates to the application of recreation ideas and approaches.
- **Flipped Classrooms-** Around 2007, Colorado high school teachers Jonathan Bergmann and Aaron Sams realized they could record their Microsoft® PowerPoint lectures in the classroom and post them online for students who couldn't attend a class that day for a very small software fee. This is when the concepts of "flipped learning" and "flipped classrooms" first came into existence. As a result, the concept of the flipped lecture room was created, in which lecturers design interactive lectures and online lessons that students must review prior to class, and class time is spent participating in hands-on "homework," chat, and other study room activities.
- **Lively Mastering Lecture Rooms-** The purpose of active learning classrooms is to introduce the idea of "active learning" into environments where in-person lectures can take place for any amount of time and along any kind of path (Prince 2004; Whiteside, et al. 2009; Cotner, et al. 2013). Collaborative classroom activities and mirror image are two examples of how students and teachers can participate in learning systems through active learning (prince 2004).
- **MOOCs-** The philosophy of the Open University and the technological foundations of traditional online courses are the sources of the Massive Open Online Course (MOOC) teaching approach (Marques 2013; Marques & Mc Gillis 2013). MOOCs can be taken at any time and from any location. The enhancement of the statistics communication era is discovered in everything of the day by day existence. It's no longer simplest changed the basics of commercial enterprise, government or training however it includes each and every sphere of lifestyles. Better schooling has multiplied its importance in closing 5 a long time as it's far helpful in meeting the demands of quality training in the gift situation. For economic boom and improvement of the kingdom, it's crucial to assess great schooling to all. The element has been accomplished to a great quantity because of advancements in the records communication era. In India facts, the verbal exchange era is taken as the transformation of education situation, as India is the developing United States has to stand quite a few demanding situations related to exertions, socio-monetary status,

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7. CONCLUSION

ICT has made great changes and huge development in every sector of our life. ICT has a significant place in improving higher education. It has its distant place in achieving the targets of quality education at the university level. It has done its job very effectively as it provides various levels or platforms for making higher education easily accessible and learner-centered. Yet there is a lack of teacher's interest in using ICT equipment in teaching-learning equipment's but with a little consciousness, it can be increased to its higher level. The proper utilization of ICT resources can bring tremendous change in the education sector at the university level. The increased use of ICT in higher education can lead India in achieving its democratization.

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