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# **Technology's Place in Higher Education**

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# Abstract:

Education is a highly social activity, and good teachers who have a high level of one-on-one interaction with students have long been linked to high-quality education. ICT is become a crucial component of today's educational process. When technology is used effectively, it can inspire students, add energy and interest to our lessons, and rekindle teachers' passion as they pick up new skills and methods. ICT is playing an increasingly significant role in higher education, and in the twenty-first century, this relevance will only increase. In addition to enhancing the in-class teaching and learning process, ICT use in education offers the advantage of e-learning. Teaching, learning, and research are all improved by the acceptance and application of ICTs in the classroom. ICT utilization will improve the educational environment while also preparing the next generation for their futures as individuals and workers. The numerous effects of ICT on higher education are highlighted in this study, along with a number of possible future developments. The use of ICT in higher education has been shown to promote conceptual understanding, enhanced knowledge, skills, and innovative capabilities, according to the National Institute of Multimedia Education in Japan. ICT technologies comprise. Course content accessibility online digital libraries, lecture notes, and course materials flipped the classroom. Projectors, internet presentations, and audio-visual equipment can help raise students' comprehension levels.

**Keywords:** Digitalization, higher education, ICT initiatives, and information and communication technology.

#### Introduction

One of the true drivers of both economic success and human advancement is education. As global financial competition becomes more intense, education is emerging as a significant source of competitive advantage. It promotes financial development and draws foreign investment and employment to a nation. Furthermore, one of the main determinants of lifetime profit is education. Information and communication technology have increased the value of education for people from a wide range of backgrounds (ICT). Over the past 20 years, the use of ICT has significantly altered how education and training are conducted. importance of education and the sufficiency of ICT as a societal necessity have been growing in the current condition-conscious society. To improve public mobility and strengthen the case for value and social fairness, information and communication technologies must be socially acceptable. ICT use can significantly alter training and education in two primary ways. Firstly, learners' perception and comprehension of the context are altered by the rich representation of information. Second, the simple access to knowledge and its wide distribution have the potential to alter the dynamic between professors and students. ICT can be a potent source of support for innovative teaching practices. Over the past few decades, there has been a noticeable rise in the number of young people obtaining higher education.

This phenomenon is a reflection of a global trend that is primarily attributable to the democratization and development of societies, the enhancement of living conditions and institutional frameworks, and the need for citizens to perform at a higher level in both their professional and personal lives. As a result, we have witnessed a shift in both the quality of the student body and the institution itself, which is reflected in the gradual loss of the formal and elitist character of higher education through the admission of people from all social classes. India's need for higher education through part-time and remote learning programmers has increased thanks to the emancipatory and transformative potentials of ICT in higher education. The introduction and quick development of ICT has drastically changed how people connect, meet, and engage with one another as well as build communities, among many other things. Technology has drastically changed how individuals and organizations communicate and exchange content because of the increasing accessibility and popularity of mobile devices and the Internet. It has also created an environment of extreme hyper-connectivity, which has led to the country's requirement for higher education through part-time and distance learning programmers.

"The university is a machinery whereby education facilities are provided to all those who are intellectually capable of using those facilities to be the best advantages but who cannot avail themselves of those facilities due to want of funds or other handicaps in life," stated Dr. Babasaheb Ambedkar (Bombay, Legislative Council Debate, July 27, 1927). The individuals involved in higher education would the attitudes, behaviors, and social and moral standards of the student body. When technology is used effectively, it can inspire students, add energy and interest to our lessons, and rekindle teachers' passion as they pick up new skills and methods. Additionally, technology is assisting kids in readily understanding any abstract concepts.

#### **Review of related literature**

ICT is decreasing the cost per student, increasing enrollment, providing facilities for companies, and supporting lifelong learners, according to Ozdmemir and Abrevaya (2007).

According to a 2012 study, ICT is increasing enrollment, decreasing the cost per student, providing for students, and supporting lifelong learners.

This study's approach is based on a 2013 research titled "Mobile computing devices in higher education: Student perspectives on learning with cellphones, smartphones, and social media" written by Joanne Gikas and Michael Grant.

Information and communication technologies in Indian higher education: potential and challenges was the subject of a 2014 study by Uttam kr Pegu. According to the report, ICT-enabled education has the potential to revolutionize higher education in India and will eventually lead to the democratization of education.

### Methodology

The purpose of this study is to provide students' detailed viewpoints on how they relate to information and communication technology (ICT) in the classroom and how they use it in their teaching and learning processes. The study also intends to investigate the experiences that students have had with online learning. A qualitative research approach was selected for those reasons. Qualitative research does not aim to measure or forecast events or the elements that impact their occurrence, in contrast to quantitative research. Rather, it allows the researcher to investigate the participants' perceptions of reality within a particular situation at a particular moment in time. Two faculties at a single public higher education institution in the Czech Republic served as the study's framework.

Their research was restricted to the usage of mobile devices in educational settings, but in my study, I plan to broaden the scope of inquiry to include a wider range of devices (computers, laptops, tablets) and web-based resources (social media, LMS Blackboard, etc.).

### **ICT'S Purpose In Higher Education:**

The way that ICTs are presented in higher education has a big impact on the whole educational process, from the initial idea to the way that

technology is used to manage important concerns like equity, access, administration, efficacy, teaching methodology, quality, research, and development.

ICT in Administration: ICT in educational institutions' administration plays a significant role in the effective use of already-existing resources and streamlines administrative tasks (such as staff, student, and general administration). This is achieved by reducing paper work and switching from manual to electronic record-keeping maintenance, which facilitates the quick retrieval of any needed information about students, staff, and general public in a matter of seconds.

ICT in Higher Education as a Change Agent: Rapid and wise judgments must be made due to the development of higher education in India as well as the necessity to survive and compete in a global environment. This has increased the breadth and complexity of administration, necessitating the use of various higher education administration techniques.

ICT in Research: Including ICT in higher education improves research quality and attracts more participants to study a variety of subjects. ICT made social networking possible and enabled global connections in every field. In their research investigations, it helps researchers save time, money, and effort.

## **ICT'S Benefits For Higher Education**

Technology adoption and integration in education have a favourable effect on research, teaching, and learning. Additionally, it improves flexibility and offers a stimulating environment and motivation for the teaching and learning process, all of which have a significant impact on learning by creating new opportunities for both teachers and students.

#### To Student

- 1. Improved accessibility,
- 2. Adaptability of content and delivery,
- 3. Integration of work and learning,
- 4. Learner-centered approach,
- 5. Improved educational quality, and
- 6. Novel forms of communication

# **Employers**

- 1. Professional development that is both highquality and reasonably priced in the workplace
- 2. Improving employee skills and productivity
- 3. Creating a new learning culture
- 4. Splitting training expenses and time among employees, and
- 5. Making training more portable

#### Governments

- 1. Enhance the quality and relevance of current educational structures
- 2. Ensure that educational institutions and curricula are connected to emerging networks and information resources;

- 3. Encourage innovation and opportunities for lifelong learning;
- 4. Reach target groups with limited access to conventional education and training;
- 5. Boost the capacity and cost-effectiveness of education and training systems.

## **Discussion and implications**

The research's conclusions imply that, on the whole, children react well to ICT use in the classroom. The primary benefits mentioned by the respondents were the accessibility and availability of educational resources as well as the increased opportunities to customize their education to fit their personal schedules. The majority of students reported no decline in motivation when compared to in-person instruction. Additionally, there didn't seem to be much of an impact of ICT use on learning effectiveness or comprehension of the study material. This study highlights a number of tactics that improved students' learning and increased their motivation. This entails reducing the number of students in a group to encourage discussion and involvement as well as modifying the teaching approach to make it just as engaging as in-person education. This study also showed that there were several issues that students had with online learning. These include issues with concentration and focus, a decline in involvement and engagement in class activities, and less chance to form new friendships. network, and hone social skills.

This paper aimed to review the state-of-theart research on the ways in which information and communication technologies support learning and communication, evaluate the impact of these technologies on these processes, and add to the body of knowledge by examining students' perspectives on their experiences using technology in the classroom. That was accomplished by employing a semi-structured interview process to conduct focus group interviews. Following collection, the data was coded and subjected to inductive analysis, which allowed overarching themes to emerge. The results of this study are consistent with those of previous researchers, showing that learning management systems (LMS) are helpful in promoting student autonomy and have minimal overall effects on learning.

### **Conclusion:**

ICT is an essential component and a powerful force for change in many educational practices, taking online tests, paying online fees, and using online resources such as books and journals. ICT in higher education thereby enhances instruction and learning procedure, offers thousands upon thousands of students who are unable to benefit from higher education because of various barriers, like time, money, location, etc., the opportunity to learn online. We must analyses and comprehend the classroom and university as a whole

from the perspective of systems thinking if we are to successfully incorporate ICT into the learning process. A portion of the variables that may affect this process, along with the communication process and their interactions, are presented in this work. Just as buying all of the pieces for a car from the greatest manufacturer do not guarantee that the final product will be the best car, focusing on incorporating the newest technology for its own sake will not guarantee student pleasure and improved education.

#### **References:**

- 1. WAHLSTROM, Billie J. (1992) Perspectives on Human Communication. United States of America: Wm. C. Brown Publishers. ISBN 0-697-10704-3
- Long, P. and Neff, K. D. (2018) 'Self-compassion is associated with reduced self-presentation concerns and increased student communication behavior', Learning and Individual Differences, 67(February), pp. 223–231. doi: 10.1016/j.lindif.2018.09.003.
- 3. Friesen, N., & Kuskis, A. (2013). Modes of interaction. In M. G. Moore (Ed.), Handbook of distance education (3rd ed., pp. 351e371). New York, NY: Routledge.
- 4. ALAVI, Maryam, Bradley C. WHEELER and Joseph S. VALACICH, 1995. Using IT to Reengineer Business Education: An Exploratory Investigation of Collaborative Telelearning. MIS Quarterly [online]. B.m.: JSTOR, 19(3), 293. Available at: doi:10.2307/249597
- Sandrone, S. and Carlson, C. (2021) 'Gamification and game-based education in neurology and neuroscience: Applications, challenges, and opportunities', Brain Disorders. Elsevier B.V., 1(February), p. 100008. doi: 10.1016/j.dscb.2021.100008.
- 6. Pan, K.-Y. et al. (2021) 'The mental health impact of the COVID-19 pandemic on people with and without depressive, anxiety, or obsessive-compulsive disorders: a longitudinal study of three Dutch case-control cohorts', The Lancet Psychiatry, 8(2), pp. 121–129. doi: 10.1016/S2215-0366(20)30491-0.
- 7. ADMIRAAL, WILFRIED et al., 2017. Teachers in school-based technology innovations: A typology of their beliefs on teaching and technology. Computers & Education. Elsevier BV, vol. 114, pp. 57–68. DOI: 10.1016/j.compedu.2017.06.013
- 8. Ruthotto, I. et al. (2020) 'Lurking and participation in the virtual classroom: The effects of gender, race, and age among graduate students in computer science', Computers and Education. Elsevier Ltd, 151, p. 103854. doi: 10.1016/j.compedu.2020.103854.

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- GHARAJEDAGHI, Jamshid and Russell L. ACKOFF, 1985. Toward systemic education of systems scientists. Systems Research [online]. 2(1), 21–27. Available at: doi:10.1002/sres.3850020105
- 10. Patton, M. Q. (2002). Qualitative research and evaluation methods (3rd ed.). Thousand Oaks, CA:Sage
- 11. Stephenson J (2001). Learner- managed learning an Emerging Pedagogy for online learning. Teaching and learning online: pedagogies for new technologies. London, Kogan page.
- 12. Shazli Hasan Khan, "Integration of ICT component in teacher education: Institution unavoidable step toward transforming the quality of present teacher education system". 2. Meenakumari.J, Krishnaveni.R, "ICT based and learning in higher education-A study", International Journal of Computer Science and emerging technologies, 2010 3. Shaikh Saleem,"Role of ICT as a quality teaching tool",An International multidisciplinary journal, 2012.
- 13. Dhirendra Sharma, Vikram Singh, "ICT infrastructure and human resource performance-A study of university in the western Himalayas of India", International Journal of advanced engineering application, Jan 2010.
- 14. John Daneil, "ICT in education a curriculum for schools and programmer of teacher development.
- 15. Dhirendra Sharma, Vikram Singh, "ICT infrastructure and human resource performance-A study of university in the western Himalayas of India", International Journal of advanced engineering application, Jan 2010.
- 16. Ajit Mondal and Dr. jayanta, 2012. ICT in Higher Education. Bhatter college journal of Multidisiplinary studies. 4(5).
- 17. Lalitbhushan S, Arunita T Jagzape, Alka T Raweker. 2014. Role of Information communication technology in Higher Education: Learners perspective in Rural medical schools. Journal of clinical and Diagonostic Research 4(5).
- 18. Manisha, Anju 2014. The Role of ICT in Higher Education in India. International journal of enhanced research in management and computer application. 3 (11)
- 19. Mc Gorry, S. Y (2002), online but on target? Internet based MBA courses: A case study, The Internet and Higher Education. 5 (2)
- Ozdemir, Z.D and Abrevaya, J 2007. Adoption of technology mediated Distance Education: A longitudinal Information and Management, 44(5), 467-479.
- 21. Yusuf Musibau Adeoye, Ayolabi Festus, Loto Antonia, 2013. Appraising the role of

Information communication technology (ICT) as a change agent for higher education in Nigeria. International journal of educational administration and policy studies. 5 (8)