Emphasis of ICT in Education

Kulkarni Kalpana

Gokaraju Rangaraju Institute of Engineering and Technology, Kukatpally, Hyderabad, India

Abstract: ICT has become a very necessary tool now-a-days in teaching and learning process as it has gained importance in distance education, online courses, MOOC's etc. The teachers have to be updated with the new platforms of the ICT where not only the student but the teacher has to know how to apply new techniques and use them in effective learning. It is very practical approach where on the same platform the student and tutor can interact through various sources and student will be able to clear his queries and get updated. The teachers from all schools, colleges, etc have to sync with the present and future generation technologies so that they can guide and mentor the students properly. It is a challenge which is faced by many teachers to learn and adapt themselves to the modern teaching methodologies and get self upgraded.

Keywords: ICT; MOOC; effective learning; future generation.

1. Introduction

According to UNESCO (2002) "ICT is a scientific, technological and engineering discipline and management technique used in handling information, its application and association with social, economic and cultural matters". ICT is applicable in all ways and used in overall world as an effective teaching technique. The importance of ICT is in giving the platform for remote and rural students to gain knowledge wherever he is. There is no fee charged for this. So it's importance has been increasing day by day^{17} . We can use the various platforms like what's app, google class room, google sheets, forms, docs, word press, blogs, webex, TPS activity, videos, animations etc. It's time for the teachers to be competent and learn new techniques and get updated with computer knowledge⁸. It is also essential for the teachers to engage the students in activities in which they are interested and useful in overall gaining of knowledge. Teachers with more education qualifications generally tend to implement ICT in their teaching learning process. Government also is introducing many new techniques and encouraging the process of ICT in not only higher education but also at the school level. Recently MHRD through TEQUIP has introduced the smart boards usage in several colleges as an initiative in teaching learning process. We should also accept the challenge and improve our own skills of communication and technology.

2. Literature Review

Research by Kidombo, Gakuo and Kindachu had found out that integration of ICT in curriculum delivery in secondary schools in Kenya depended on schools' leadership, professional training of the teachers in ICT, school manager's level of ICT skills competence and presence of school ICT policy. Private schools were found to have had ICT policy which the public schools lacked. Kombo reported that despite the Kenya government's effort and willingness to promote ICT as an instructional tool, progress on ICT font had fallen short of expectation. The report added that the Ministry of education strategic plan for 2008-2012, slow integration of ICT in operations and programmes was identified as an area of major weakness in the part of the ministry. Literature by Bryderup and Kowalsksy also informed that the development of ICT school plan with clear goals and defined means to realize the goals was a crucial step towards actual ICT integration and a visionary leader was a major requirement as well. A school culture was another variable considered critical in success of an innovation in a school. Above all, success in integration of ICT in curriculum implementation depends on the motivation of individual classroom teachers as expounded by Tonduer. Teachers' attitudes and beliefs were seen as the main factors influencing implementation of an innovation such as ICT integration in curriculum implementation. Teachers interpret innovations according to their personal beliefs. They accept more easily innovations that are in accordance with their own personal perceptions of teaching and learning.

3. Objective

The main objective is to know the importance of ICT in teaching and learning techniques.

4. Methodology

The main technique which we are going to use is which involves the overall development of student by using ICT in class room like playing videos, animations, TPS activity, Predict-Observe and explain techniques which develops interest in the subject.

5. Significance of ICT in Education

The main significant changes that can occur by using the video simulation technique in education is to the students. They feel interested and can understand it easily and use it effectively. The impact was more on the student's learning that the percentage increased enormously and student's interest factor was up to 70%. There won't be students who get bored by our lecture. The desire of the teacher also became much higher to learn and effectively use these techniques. Self efficacy is defined as a belief in one's own abilities to perform an action or activity necessary to achieve a goal or task. In real meaning, self-efficacy is the confidence that individual has in his/her ability to do the things that he/she strives to do. This has a greater effect in teaching learning environment. The role of teacher is essential as he/she should have a passion to learn new

techniques useful for the student. Higher institutions must replace the traditional teaching techniques with new ICT.

6. Conclusion

The greatest motivation for integration of ICT in education was found to be the teachers' desire to teach better. The institutions are providing LCD projectors, internet facility, computers, white boards, etc wherein a teacher can implement and integrate ICT in the teaching learning process. The training of teachers is also important in pedagogy and ICT. The management of higher educational institutions and government of India should encourage the teachers in training the teachers effectively.

So we should use information & communication Technology in Teacher Education because now teachers only can create a bright future for students. The adoption and use of ICTs in education have a positive impact on teaching, learning, and research. It would provide the rich environment and motivation for teaching learning process which seems to have a profound impact on the process of learning in education by offering new possibilities for learners and teachers. These possibilities can have an impact on student performance and achievement.

References

- [1] Chauhan, S. S. (1992). Innovations in Teaching and Learning process. New Delhi: Vikas Publication House Pvt. Ltd.
- [2] Dash, K. M. (2009) ICT in Teacher Development, Neelkamal Publication Pvt. Ltd. Educational Publishers, New Delhi.
- [3] UNESCO (2002). Information and Communication Technologies in Teacher Education, A Planning Guide. Paris: UNESCO.
- [4] NCTE (2002). ICT initiatives of the NCTE Discussion Document. New Delhi : National Council For Teacher Education.
- [5] Dahiya, S. S. (2005). ICT-Enabled Teacher Educator, University News, 43 page 109-114 May 2-8.
- [6] Bharadwaj, A. P. (2005). "Assuring Quality in Teacher Education", University News, Vol. 43.No. 18. 6 BaishakhiBhattacharjee and Kamal Deb
- [7] Aggarwal, J. C. (1996), Essential of Educational Technology, Vikas Publishing House, New Delhi.
- [8] ArunVignesh, N., Jayanthi, D., AyyemPillai, V.,Kanithan, S., Shilpa, B "Improving the performance quality of service parameters using mobile node positioning algorithm" in WLAN(2018).
- [9] ICT in Education (2006). Information and communication technologies in teacher education: A planning guide.
- [10] Kirwadkar, A & karanam, P. (2010) : E-learning Methodology. Sarup Book Publishers Pvt Ltd. New Delhi.
- [11] Agarwal, J. P. (2013): Modern Educational Technology. Black Prints, Delhi.
- [12] Surakanti, R., Sanivarapu. S., Thulluri, C., Iyer, P.S., Murthy, Y.L.N(2013) pp 1168-1176

- [13] Synthesis of previliged scaffolds by using diversityoriented synthesis Venkataiah, N. (1995) "Educational Technology" Atul Publishers, daryaGanj, New Delhi.
- [14]Goel, D. R. (2003), ICT in Education, Changes and Challenges in ICT in Education. M. S. University, Baroda.
- [15] Vanaja, M. & Rajasekhar, S. (2009), Educational Technology and Computer Education, Neelkamal Publications Pvt. Ltd., Hyderabad.
- [16] Mallikharjuna, R.K., Kodali, A. An efficient method for parameter estimation of software reliability growth model using artificial bee colony optimization (2015) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 8947, pp. 765-776
- [17] KOTKUNDE, N., SRINIVASAN, S., KRISHNA, G., GUPTA, A.K., SINGH, S.K. Influence of material models on theoretical forming limit diagram prediction for Ti–6Al–4V alloy under warm condition (2016) Transactions of Nonferrous Metals Society of China (English Edition), 26 (3), pp. 736-746.
- [18] Prassana Lakshmi, K., Reddy, C.R.K. (2010)" A survey on different trends in data streams" art.no 5508473 pp 451-455.
- [19] Vishnubhatla, A(2020) Electromagnetic simulation of optical devices pp 431-436.
- [20] Nayak, P., Sinha, PAnalysis of random way point and random walk mobility model for reactive routing protocols for MANET using netsim simulator (2016) Proceedings - AIMS 2015, 3rd International Conference on Artificial Intelligence, Modelling and Simulation, art. no. 7604613, pp. 427-432
- [21] Sucharitha, Y., Vijayalata, Y., Prasad, V.K. Emergent events identification in micro- blogging networks using location sensitivity (2019) Journal of Advanced Research in Dynamical and Control Systems, 11 (8 Special Issue), pp. 596-607.
- [22] Dhanalaxmi, B., AppaRao Naidu, G., Anuradha, K. A review on different defect detection models in software systems (2018) Journal of Advanced Research in Dynamical and Control Systems, 10 (7), pp. 241-243.
- [23] GanapathiRaju, N.V., Kautilya, A.K., Pal, D., Santosh Kumar Patra, P., Kamesh, D.B.K. Social network inference for optimized E-commerce using emotion AI (2018) Journal of Advanced Research in Dynamical and Control Systems, 10 (7 Special Issue), pp. 1790-1799.
- [24] ButchiRaju, K., Rao, C.S. A new multi pattern multi processor parallel string matching algorithm with while shift (2016) International Journal of Control Theory and Applications, 9 (39), pp. 383-388.
- [25] Kotkunde, N., Krishnamurthy, H.N., Singh, S.K., Jella, G. Experimental and Numerical Investigations on Hot Deformation Behavior and Processing Maps for ASS 304 and ASS 316 (2018) High Temperature Materials and Processes, 37 (9-10), pp. 873-888
- [26] Renuka, S., Suresh Kumar, N. Statistical accuracy of authentication with biometrics (2019) International Journal of Engineering and Advanced Technology, 8 (4), pp. 1040-1043

Volume 9 Issue 4, April 2020

<u>www.ijsr.net</u>

Licensed Under Creative Commons Attribution CC BY