

Role of ICT in Teacher Training Education

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ABSTRACT

Information and Communication Technology (ICT) can be utilized in the education sector. Education includes online, distance, and part-time education. ICT is an important component in improving the effectiveness and innovativeness in teaching. There are various ways to effectively conduct the teaching-learning process through the judicious use of ICT. The objectives of this research paper: 1) To study the need and importance of ICT in the teaching training process (2) To study the perception of Teacher Educators about using various techniques to integrate ICT in teaching-learning process. The sample of the study comprised 50 Teacher Educators from 10 B.Ed. Colleges from Haryana. Close-ended questionnaires and open-ended Questionnaires were used for the present study. The findings indicated that ICT integration and its various forms are beneficial for improving teacher training education quality and innovativeness.

Keywords: ICT, Perception of Teacher Educators, Teacher Training Education.

Journal of Teacher Education and Research (2022). DOI: 10.36268/JTER/17106

INTRODUCTION

The education system includes formal and Non-formal forms of education at various levels of education. Teaching is imparting knowledge or skill, whereas learning is skill acquisition and increased fluency. Usage of ICT is one of the ways by which India's large population base can be effectively reached. ICT is a term that refers to technologies which are being used for collecting, storing, editing, and passing on information in various forms. ICT has been characterized as making the teaching training process is dynamic and effective. A teacher has a key role in the whole process, whereas in ICT-based education. The need for teacher training is widely acknowledged, and effective teacher training imbues the quality of using ICT in teaching. The teachers need to learn to teach with various digital technologies and innovate new ICT-based techniques in the teaching training process. The teacher training in this regard can be either education in ICTs or teacher education through ICTs.

NEED OF THE STUDY

Technology is only a tool and it must be utilized only to remove the barriers and challenges present in the existing system. In the modern world of ICT there is a decentralization of knowledge sources. With ICT, a teacher can use various ways to make the teaching training process very creative, effective, and interesting at the same time. ICT is important, especially for B.Ed. Students as it makes the teaching training process more understandable, attractive, and long-lasting for students and also for training the teacher educators in its use in their teaching training process so as to make teaching more effective and interesting. ICT is applied in their teaching practices as well as for delivery for these trainings. It is also important to understand the perception of Teacher Educators on the various ways through which ICT can be effectively based. Therefore, it is important to understand the impact of ICT on developing their teaching skills.

RESEARCH DESIGN

Statement of the problem: Role of ICT in Teacher training education

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How to cite this article: Kumar, P. (2022). Role of ICT in Teacher Training Education. *Journal of Teacher Education and Research*, 17(1):29-30.

Source of support: Nil

Conflict of interest: None

Objectives

- To study the need and importance of ICT in the teaching training process
- To study the perception of Teacher Educators about using various techniques to integrate ICT in teaching-learning process.

Sample

Ten B.Ed. Colleges of Haryana were randomly selected. 50 Teacher Educators were randomly assigned to conduct the survey. Close-ended questionnaires and open-ended Questionnaires were used for the present study.

Tools

- Close-ended questionnaire for knowing the significance of integrating ICT in teaching training.
- Open-ended questionnaire for knowing the perception of Teacher Educators about various techniques to integrate ICT in teaching training.

Procedure for Data Collection

Ten B.Ed. Colleges were randomly selected to collect the data wherein Five Teacher Educators from each college were selected randomly to conduct the research. Ten B.Ed. Colleges of Haryana selected for research.

Analysis and Interpretation

- Interpretation based on the open-ended questionnaire on knowing the various ways to conduct ICT in the teacher training process effectively. Analysis and interpretation of open-ended Questionnaire regarding various ways through which ICT can

Table 1: Questionnaire for Bed students

Sr. No.	Statements	Yes(%)	No (%)
1	Helpful in developing creativity	85	15
2	Helpful improving the teaching skills of students	88	12
3	Helpful in increasing interest towards to job	75	25
4	Helpful in lesson planning for students	93	07
5	Helpful in micro-teaching for students	90	10
6	Helpful in the practical exam	84	16
7	Makes teaching interesting	92	08
8	Helpful in assignment completion for students	86	14
9	Helpful in developing an effective understanding for students	78	22
10	Helpful in developing competence among students	91	09
11	Helpful in the evaluation of students' performance	77	23
12	Helpful in using a practical approach to teaching	87	13
13	Helpful in reasoning and analytical thinking	92	08
14	Helpful in improving comprehension	73	27
15	Makes positive attitude towards training process	79	21

be integrated. Teacher Educators were of the view that every subject includes the various aspects that can be very effectively taught through the use of ICT. In teacher training colleges, computers and the internet can be used to increase teachers' basic skills of teaching and subject-related knowledge by accessing the resources that can be used in classroom teaching. The techniques were as online games, projects on science & mathematics, online quizzes, and much software on various subjects available on the internet. In an ICT environment, online tests can easily be used, instantly providing the teacher with a wide range of information associated with the learner's score. Educational Psychological concepts, use of animations and images in training lesson plans using ICT. In the teacher training program B.Ed. Students help MS Office like- MS Excel, Ms PowerPoint, etc. They were also of the view that for B.Ed. Students it is great exposure and training as it would be useful for them in their teaching. Therefore teacher educators gave their views on the various ways through which we can use ICT in different subjects, aspects of B.Ed. and for students also as they approach the school teaching.

- Analysis and interpretation of close-ended questionnaire on the perception of teacher educators on the need and importance of ICT in teaching training.
Developing ICT has changed the epic center of knowledge, and hence in many cases, students are more informed than the teacher. So, therefore from the analysis of the close-ended questionnaire,

we can interpret that a high percentage of Teacher Educators think that ICT is of immense importance in the teaching training process. 85% feel that ICT helps develop creativity and improve students' teaching skills, 92% feel that it helps to make the teaching training process more interesting.

CONCLUSION

Rapid changes in technology will ensure that ICT will proliferate in the classroom. There were various techniques that were recommended by teacher educators in using ICT in our teaching training and also for B.Ed. students so as to make teaching a lifelong learning experience. While concluding, we can say that ICT is of paramount importance in the teaching training process, and there is a great need for it to make our teaching training effective, creative, and interesting. ICT will also prepare our children for successful lives and careers in an increasingly technological world.

REFERENCES

- Kishan, Ramnath N. (2007). Global Trends in Teacher Education, APH Publishing Corporation, New Delhi
- www.infodev.org
- <http://www.scribd.com>
- ICT in Education, SBD
- Educational Technology, Laxmi book depot, Bhiwani
- www.expresscomputeronline.com

