
EFFECTIVENESS OF EDUCATIONAL TECHNOLOGY IN TEACHING LEARNING PROCESS OF B.ED STUDENTS

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Abstract

The present study was carried out to find the effectiveness of Educational Technology in teaching – learning process of B.Ed., students. The tool was prepared and validated by the investigator. Survey and questionnaires were the main means of data collection. The investigator found that the B.Ed., students faced the problems like scarcity of trained educational technology teacher, shortage of computers and Internet facilities.

Introduction

Educational technology covers two aspect in teaching learning process i.e. technology as a things and technology as a social process. Educational technology is the embodiment of the practical information which is the outcome of the application, science of teaching and learning to observe it practically in the classroom together with the aids and teaching strategies developed to give a feed back in its application. In the field of education there are a number of products joint instructional procedures with instructional tools. Learning theories play a pivotal role in teaching learning process, which help teachers, and to integrate them in to teaching. Each theory of learning has its own procedures for instruction general and for the use of education technology in particular. The use of technology in education has witnessed many series of change from nearly a way of instructing to development of educational technology as a system. Aggarwal (1995, p.19) stated that: "One of the important components of education is teaching". Therefore, teaching technology is a special branch of education technology. Education technology involves teaching, learning technology and systems approach.

Educational technology is correlated with the application of audio-visual aids. A trained instructor use these audio-visual aids to make his instruction effective. Electronic revolution is engulfed in educational technology, which has led to a stage of remarkable software and hardware. The audio-visual aids such as projector, tape record, radio and television has completely changed the background of education that why educational technology was given importance in teaching learning process of B.Ed students.

Review of Related Literature

Technology describes a process that is something that the people do to solve problems or to achieve objectives and products such as instruments and tool, something that can be touched and exists and can utilize to satisfy the community needs. Jagannath Mohanty (1992, p.4): "It is believed that the application of different modern methods and instruments is needed for assisting the teacher to perform his job better whatever he has been previously doing for a long time. In view of this objective the audio-visual movement has not been initiated for the past two generation. But because of the absence of coordinated and sincere efforts, the audio-visual material have not been utilize sufficiently. Many of this type of aids have been found lying idle and dusty and some have been out of order all the time.

However there are some instructors who are keenly interested in the use of the audio-visual materials available to them." Venkataiah (1996, p.17): "The teacher has to play a fundamental role for the success of the Educational Technology The teaching aids either new or old just supplement the attempts of the teacher to improve the learning process. ET cannot be a substitute for the instructor.

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The technologies help him to perform his duty in an efficient way to achieve the educational goals."Educational technology has the ability to improve the teaching learning process. Educational technology in use of self-instructional programme known as individualize instruction, to improve the quality of teaching learning process of B.Ed., students.

Objectives

Objectives of the study were

1. To determine the effect of educational technology in teaching learning process of B.Ed., students.
2. To analyse the problems faced in the use of education technology by B.Ed., students.
3. To point out the emerging trends in the use of educational technology by B.Ed., students.
4. To assess the status of educational technology in teaching learning process by B.Ed., students.

Methodology

Survey and questionnaires were the main means of data collection. Self assessment questionnaires were administered on sampled teacher educators and B.Ed., students. Chi Square was applied to measure the availability, usefulness, emerging trends, utilization, status and impact of educational technology.

Data Analysis

The following results are presented after the data were analyzed statistically.

Table No 1 Opinion of Teacher educators about the usefulness, provision and availability of E.T

S.No	Statement	Chi
1	B.Ed, Students faced problems in having access and use of radio as a medium	418.89
2	The B.Ed, Students faced problems in having access of ETV as a medium	317.7
3	E.T encourages access of B.Ed, Students to video cassettes	253.85
4	Cds have involved more senses for effective teaching and learning	64.84
5	The B.Ed, Students has have related training in use of ET	6
6	The B.Ed, Students has have related seminar / conferences regarding ET.	31.88
7	Institutions have providing ET items for the benefits of the B.Ed., students.	8
8	It was difficult to provide enough places for the use of ET	83.30
9	Institutions were providing adequate ET for technical subjects	93.97

It is observed from the above analysis that the calculated value of Chi-square is greater than table value of $\chi = 9.488$ at $P = 0.05$. So as a whole the result is significant. Therefore, it is supported the statements that B.Ed., students faced problems in having access and use of emerging technologies.

Table No 2 Suggestions / Comments of the B.Ed., Students Regarding the Usefulness of Educational Technology

S. No	Suggestion	Frequency	% Age
1	Utilization of educational technology should be insured	80	16.49
2	Computer should be provided	65	13.40
3	Proper guidance & counselling should be given to each B.Ed. Students	58	11.96
4	Trained educational technology should be provided	52	10.72
5	Television channels should be launched	50	10.31
6	Internet facilities should be provided	45	9.28
7	Lab should be managed properly	41	8.45
8	Science subject should be taught by experiments	34	7.01
9	Teacher Educators presence should be assured	30	6.19
10	Enough places should be provided for educational Technology	30	6.19

The table No: 2 shows the frequency and percentage of various suggestion / comments regarding the availability, usefulness, problem, emerging trends and status of educational technology.

Recommendations

Keeping in view the restrictions with respect to in-adequate educational technology facilities the researcher presents a few general recommendations. The researcher firm in his belief that: if the existing in-adequate resources are optimally utilized and efficient management is corrected; the motivation for innovation in using Educational Technology would start in no time in the B.Ed Colleges. As computer promotes active participation of B.Ed., students therefore it should be included in curriculum as a compulsory subject. There should be a continuous system of curriculum revision at all levels in accordance with national needs, market requirement and capabilities of B.Ed., students to improve intellectual level of students and pedagogical skills of the teacher educators. Colleges should devise flexible timetable to give considerable space for the use of Educational Technology. Long term and short-term training should be conducted for B.Ed., students. College should be fully equipped with emerging technologies. The course contents should be extensively assisted through online programmes. Systematic and advance teaching strategies should be adopted. Computer should be used in science practical to promote objectively. In order to gain maximum benefits of emerging technologies B.Ed. Students may be provided opportunities to participate in seminar / conference / workshop in order to develop skills of using these technologies effectively.

Conclusion

It was observed from the data analysis it was also pointed out that B.Ed, Students in general do not use audiocassettes in teaching learning process. The students faced the problems like scarcity of trained educational technology teacher, shortage of computers and Internet facilities. The students pointed out that computer are not used in science practical, which could enhance the teaching learning process tremendously.

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