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AN INVESTIGATION INTO THE BARRIERS OF USING EDUCATIONAL TECHNOLOGY AMONG ARTS AND SCIENCE COLLEGE TEACHERS IN TIRUCHIRAPPALLI DISTRICT

M. Eswaran

INTRODUCTION

Education moulds the character and personality of an individual while Aristotle felt that the purpose of Education is to create a sound mind in a sound body. Aurobindo regarded education as a process of building the human mind and spirit.

Change is the need for the day. The rapid pace at which technology is transforming the process of learning in many countries almost unbelievable the imperceptible momentum gathered by the engines of technology while at work in education will change the entire learning scenario like nothing else during the next few years what is really amazing is that the developments are being telescoped in to shorter and shorter time spans and this is the crux of the matter. As a result, the learning tools at the command of the children are getting more effective and sophisticated. At the root of this revolution are the personal computer, the television set, video cassettes, the satellite network and what not and there is no stepping

ABSTRACT

The study was conducted on higher secondary students in Tiruchirappalli district. A total sample of 250 college teachers was chosen. A self made questionnaire was used to collect the data which was treated with statistical techniques. Results revealed that not significant variation in the barriers of using educational technology among arts and science college teachers with to their gender, Subject, locality of college and type of college.

KEYWORDS : *Educational Technology , higher secondary students , statistical techniques .*

SHORT PROFILE

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this avalanche of change as the world approaches the 21st century, our teachers cannot keep away from these changes.

SCOPE OF THE STUDY

Educational Technology has revolutionized the education system. It has greatly influenced the teaching learning process. Teaching aids forces the pupil to think reason and contemplate which in necessary for teaching and knowledge development. So the schools should always entail the use of audio-visual education or teaching aids. So as to make or teaching aids, so as to make to innovative the student to think, reason, analyze, comprehend and understand for self-learning and true education.

It is the hope of the investigator that the findings of the study can provide valuable suggestions, which will be helpful to the teachers to know the barriers of using technology as well as to helping them to develop the skill in handling educational

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technology in this classroom effectively.

NEED FOR THE STUDY

Indian is a developing country. The literacy of India is about 75% and the classroom is the place of bringing up the future citizens. It is rightly said in the Kothari commission report, "The destiny of Nation is shaped in the four walls of the four classrooms". The teacher plays an important role as a communicator and transmits knowledge to the students. It is universally accepted that he is the pivot of the educational system.

To teach any subject whether it is language, science or mathematics, educational technology is very essential. So, In order to teach subject with educational technology will be very useful. Teachers must have efficient knowledge of handling educational technology. So there is an urgent need to find out the barriers among teachers in usage educational technology in classroom teaching.

STATEMENT OF THE PROBLEM

In present scenario, it is important to know and apply the Educational Technology and its applications by the teachers in their classrooms. But due to lack of many factors, they were not intending to accept and apply all the technologies available without any hesitation. In order to make them to know the level of about technology and to eliminate the various among them the investigator is to take the problem.

This statement of the problem is titled as AN INVESTIGATION INTO THE BARRIERS OF USING EDUCATIONAL TECHNOLOGY AMONG ARTS AND SCIENCE COLLEGE TEACHERS IN TIRUCHIRAPPALLI DISTRICT.

OBJECTIVES OF THE STUDY

1)To find out the Barriers of using Educational Technology among Arts and Science College Teachers on the basis of their Gender.
2)To find out the Barriers of using Educational Technology among Arts and Science College

Teachers on the basis of their Subject.
3)To find out the Barriers of using Educational Technology among Arts and Science College Teachers on the basis of their Locality of College.
4)To find out the Barriers of using Educational Technology among Arts and Science College Teachers on the basis of their Type of College.

HYPOTHESES OF THE STUDY

1)There will be no significant difference between the Barriers of Using Educational Technology on the basis of their Gender.
2)There will be no significant difference between the Barriers of Using Educational Technology on the basis of their Subject.
3)There will be no significant difference between the Barriers of Using Educational Technology on the basis of their Locality of College.
4)There will be no significant difference between the Barriers of Using Educational Technology on the basis of their Type of College.

SAMPLE OF THE STUDY

The population of the study is the sample of the study for the present research. The primary purpose of research is to discover principles that have universal application but to study whole population to arrive at generalizations would be impracticable, if not possible. So in research studies a small proportion is selected for observation and analysis. By observing the characteristics of the sample, one can make certain inferences about the characteristics of the populations from which it is drawn. For the present study 250 samples has been collected from arts and science college teachers in Thiruchirappalli District using stratified random sampling.

STATISTICAL TECHNIQUES

Statistical technique serves the fundamental purpose of the description and inferential analysis. The following statistical technique was used in the study.

• Mean (M)
• Standard Deviation (SD)
• 'T' Test for determine the significance of difference between two-sub groups variables.

HYPOTHESES TESTING
HYPOTHESES: 1

There will be no significant difference between the Barriers of Using Educational Technology on the basis of their Gender.

Table-1

Significance difference in the level of barriers of using Educational Technology among Arts and Science College Teachers on the basis of their Gender

Gender	N	Mean	SD	't' value	Level of significance
Male	65	165.18	13.74		Not
Female	185	163.35	12.16	1.008	significant

The calculated t-value 1.008 which not significant, confirms that there is no significant difference in the barriers of using educational technology among arts and science college teachers on the basis of their gender Hence the stated hypothesis is rejected. To sum up male and female do not differ significantly in their barriers of using educational technology among arts and science college teachers.

HYPOTHESES: 2

There will be no significant difference between the Barriers of Using Educational Technology on the basis of their Subject.

Table-2

Significance difference in the level of barriers of using Educational Technology among Arts and Science College Teachers on the basis of their Subject

Subject	N	Mean	SD	't' value	Level of significance
Arts	96	161.79	9.39		
Science	154	165.09	14.10	2.028	significant

The calculated t-value 2.028 which is significant, confirms that there is significant difference in the barriers of using educational technology among arts and science college teachers on the basis of their Subject. Hence the stated hypothesis is accepted. To sum up arts and science college teachers are differ significantly in their subject.

HYPOTHESES: 3

There will be no significant difference between the Barriers of Using Educational Technology on the basis of their Locality of College.

Table-3

Significance difference in the level of barriers of using Educational Technology among Arts and Science College Teachers on the basis of their Locality of College

Locality of college	N	Mean	SD	't' value	Level of significance
Rural	90	163.82	9.93		Not
Urban	160	163.831	13.89	0.006	significant

The calculated t-value 0.006 which is not significant, confirms that there is no significant difference in the barriers of using educational technology among arts and science college teachers on the basis of their locality of college. Hence the stated hypothesis is rejected. To sum up rural and urban do not differ significantly in their barriers of using educational technology among arts and science college teachers.

HYPOTHESES: 4

There will be no significant difference between the Barriers of Using Educational Technology on the basis of their Type of College.

Table-4

Significance difference in the level of barriers of using Educational Technology among Arts and Science College Teachers on the basis of their Type of College

Type of college	N	Mean	SD	't' value	Level of significance
Government	50	164.84	9.908		Not significant
Self-Finance	200	163.831	13.187	0.6371	

The calculated t-value 0.6371 which is not significant, confirms that there is no significant difference in the barriers of using educational technology among arts and science college teachers on the basis of their type of college. Hence the stated hypothesis is rejected. To sum up Government and self-financing do not differ significantly in their barriers of using educational technology among arts and science college teachers.

FINDINGS OF THE STUDY

1) There is no significant difference between the Barriers of Using Educational Technology on the basis of their Gender.

2) There is significant difference between the Barriers of Using Educational Technology on the basis of their Subject.

3) There is no significant difference between the Barriers of Using Educational Technology on the basis of their Locality of College.

4) There is no significant difference between the Barriers of Using Educational Technology on the basis of their Type of College.

CONCLUSION

The present study has investigated about the barriers of using educational technology among arts and science college teachers in Tiruchirappalli District. It was concluded that arts and science college teachers have high level of barriers using educational technology. This study identified a number of barriers to using the educational technology include lack of time to learn, lack of support etc., to successfully implement new technologies in teaching and learning , institutions must address these barriers to faculty adoption.

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