

A Study of the Utilization of Instructional Technology at Higher Level

By

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Abstract

Instructional technology is important in education system. Instructional technologies are those devices which are used in classrooms to encourage teaching learning process and make it easier and interesting. Audio –visual aids are the best tool for making teaching effective and the best dissemination of knowledge .So there is no doubt that technical devices have greater impact and dynamic informative system. This study designed to analyze the utilization of instructional technology at higher level. To achieve the purpose of study two questionnaires was design as research tool separately for teachers and students. The questionnaire was administered to 150 students and 50 teachers of The Islaamia University of Bahawalpur, (faculty of arts and faculty of science) Mean score was calculated to determine the empirical reaction of students and teachers on each item. The data was analyzed by using standard deviation and Z test. The findings for each statement were made. On the basis of findings, the conclusion was drawn. It was found that (i) the respondents viewed that A.V aids play important role in teaching learning process (ii) A.V aids make teaching learning process effective (iii) The respondents viewed that A.V aids provide knowledge in depth and detail (iv)It brings change in class room environment.(v)It motivates to teachers and students. On the basis of findings of study, following recommendation were made (1) Teachers may be trained for using A.V aids (2) Teachers may planning before using A.V aids (3) University may provided proper facilities of A.V aids (4) A.V aids may be according to level and interest of students.(5) Training may be provided to student for proper use of A.V aids.

Keywords: *study, utilization, audio aids, visual aids, teaching ,learning ,process, instructional technology, higher level*

1. Introduction

Education is necessary for everyone. Education is very important, without education no can lead a good life. Teaching and learning are the important element in education. The teacher use different methods and material to teach their students and their effective learning. With the passage of time, different methods and techniques are entered in the field of education and teacher use different kind of aids to make effective teaching.

Teaching aids arouse the interest of learners and help the teachers to explain the concepts easily. *Undoutly*, audio visual aids those instructional aids which are used in the classroom to encourage teaching learning process.

As Singh (2005) defines: “Any device which by sight and sound increase the individual s’experience,beyond that acquired through read described as an audio visual aids”

Audio- Visual aids are those instructional devices which are used in the classroom to encourage learning and make it easier and interesting. The material like charts, maps ,models, film strip, projectors radio, television etc called instructional aids.(Rather,2004)

Audio visual aids are effective tool that ”invest the past with an air of reality.”A.V aids provide the

learners with realistic experience, which capture their attention and help in the understanding of the historical phenomena. They appeal to the mind through the visual auditory senses.(Jain,2004)There is famous Chinese proverb “ one seeing is worth, a hundred words” it is fact that we receive knowledge through our senses. There is another proverb that” if we hear we forget, if we see we remember, and if we do something we know it” so it means that use of A.V aids make teaching learning process more effective. As Kishore(2003) said “A.V aids stimulated thinking and understand.” The use of A.V aids in teaching learning process has multifarious values(Mohanty,2001).A.V aids give chance to speakers to make a more professional and consistent presentation. The teaching profession is filled with countless opportunities to enrich the academic lives of students, while some concepts and educational objectives will be easy for students to grasp, other will require you to think creatively to ensure that important learning objectives are met. Using A.V aids in teaching is one way to enhance lesson plans and give students additional ways to process subject information (Kunari,2006).A.V aids are devices present unit of knowledge through auditory of visual stimuli both with a view to help learning. They concretize the knowledge to be presented and help in making learning experience apple real, living and vital. They supplement the work of the teacher and help in the study of the text books. The great educationist Comenius has well said: The foundation of all learning consists in representing clearly to the senses and sensible objects so they can be appreciated easily(Singh,2005)

Objectives of the Study

Following were the major objectives of the study:

- To identify the uses of instructional technology at higher level.
- To know the interest of students in Audio visual aids at higher level
- To analyze the utilization of Audio visual aids in teaching learning process at university level.
- To find out the problems in using instructional technology.

2. Method and Procedure

The study was descriptive research in nature. Two five point rating scale questionnaire were developed to collect the data from teachers and student. The intended target population was all the students and teachers of faculty of arts, faculty of science and faculty of education. Out of the whole population, 150 students and 50 teachers were selected through simple random sampling technique.

3. Analysis of Data

Mean score was calculated for overall level of agreement / disagreement for each statement. For mean score norm was 3.00.However level of agreement was different for each statement. . The data was also analyzed percentage with the help of Microsoft excel. The overall level of agreement or disagreement and made the following comparisons:

Scale values assigned to each of the five responses was as:

Level of Agreement	Scale Value
SA	5
A	4
UNC	3
DA	2
SDA	1

To calculate the mean score, following formula was used.

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$$\text{Mean Score} = \frac{(\text{FSA} \times 5 + \text{FA} \times 4 + \text{FUNC} \times 3 + \text{FDA} \times 2 + \text{FSDA} \times 1)}{N}$$

Where

- FSA= Frequency of strongly agreed
- FA= Frequency of agreed
- FUNC= Frequency of uncertain
- FDA= Frequency of disagreed
- FSDA= Frequency of strongly disagreed

In order to determine the empirical reaction of the students on each item, the mean score on all twenty items was calculated in table no 1:

Item wise analysis of teachers

Table no 1

Sr.No	Statements	Means Score (Student)
1	Students understand more effectively with the use of instructional technology	4.47
2	Students take interest when teacher use technology in education	4.30
3	Lack of training for proper use of aids.	3.20
4	A.V aids play important role in teaching process	3.87
5	Modern techniques required to use in classroom	4.00
6	Special training for using A.V aids is necessary	3.41
7	Teachers are trained to use A.V aids	3.63
8	Use of A.V aids help a teacher during teaching process	3.80
9	Use of A.V aids provide easy way to teach a difficult concepts.	3.41
10	A.V aids provides depth and variety of teaching methods	3.52
11	A.V aids save teacher time	3.40
12	A.V aids provide more information	3.30
13	A.V aids make teaching process more meaningful	3.80
14	A.V aids share teacher s' burden.	2.90
15	A.V aids are easily available in classroom	2.63
16	A.V aids provide first hand knowledge to students	2.64
17	Extra and detail study for exams affect on students' performance	3.80
18	Use of A.V aids bring change in classroom environment	3.83
19	A.V aids make class room activities long lasting	3.78
20	Students participate actively as compare to simple teaching	3.34

Table shows that mean score more than 3.00(norm) means that most of the teachers agreed that use of A.V aids are more effective in teaching process at university level.

Item wise analysis of students

Table no. 2

Sr.No	Statements	Means Score (Student)
1	Teacher use A.V aids in the classroom.	3.97
2	Teacher use A.V aids related to topic	3.34
3	Teacher use A.V aids in sequence	3.57
4	A.V aids are according to students' level	3.73
5	Students feel difficulty to understand with A.V aids	2.87
6	A.V aids make learning effective	3.24
7	Teachers are expert to use A.V aids	3.72
8	A.V aids save students' time	3.53
9	A.V aids provide difficult things in simple way to understand	3.76
10	Teacher clear the concepts of student by using A.V aids	3.88
11	Teacher guide their students to use properly A.V aids	3.21
12	Teacher use A.V aids according to his needs	3.37
13	Teacher prepare his /her aids before the class	3.32
14	Teacher use unnecessarily A.V aids in classroom	2.31
15	A.V aids motivate the students towards learning	3.64
16	A.V aids play important role in students' learning	3.45
17	Use of A.V aids provides deep knowledge	3.80
18	Use of A.V aids bring change in classroom environment	3.27
19	A.V aids make learning long lasting	3.28
20	A.V aids provide help to students in different assignment	4.21

Table shows that mean score more than 3.00(norm) means that most of the students agreed that use of A.V aids are more effective in learning process at university level.

4. Conclusions

On the basis of findings, the following conclusions were drawn:

- The respondents viewed that the respondents viewed that A.V aids play important role in teaching learning process
- A.V aids make teaching learning process effective
- The respondents viewed that A.V aids provide knowledge in depth and in detail
- It brings changes in class room environment.
- It motivates to teachers and students.
- It is helpful for teachers to teach the difficult concepts in a easy way.
- The respondents viewed that it saves the time of teachers as well as students.
- It makes teaching learning process interesting.

5. Recommendations

Based on the research study, following recommendations are made :

- Teachers should be trained for using A.V aids.
- Teachers should make planning before using A.V aids.
- University should provide appropriate facilities of A.V aids

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- A.V aids should be according to level and interest of students.
- Training may be provided to student for proper use of A.V aids.
- Teachers should use relevant techniques to the topic.

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