

## Attendance Assessment with Implementing Audio Visual Aids

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### Abstract

*A study on the effect of audio visual methodology for teaching learning process has been carried out in the school of mechanical engineering KIIT University for basic as well as applied subject and for numerical base subjects as well as theoretical subjects for different sections taught by different teachers. With the view of randomly selected 150 students it has been carried out that, teaching of theoretical subjects with the help of audio visual technique are worthful and numerical based subjects with this method is not much acceptable. However teaching of applied engineering subjects through audiovisual technique is one of the best method that has been revealed in this study.*

### Introduction

Term 'Education' for the living world is the outcome of learning process by means of optimum utilisation of different natural sensors of the living body. But the term 'Education' for a mature human being is the outcome of learning processes from society, experiences, institutions etc. It is a never ending process for a human being through out the life. Education from the institution or academic organisation is a vital process by which the living standard and behaviour towards various aspects of a person is being continuously developing and thus life is being better and better. Especially a proper technical education leads the world ahead. Teaching and learning are the important element in education. There fore throughout the globe many universities have done innovation into its curriculum which has permitted to create blogs in order to help the individuals as a technological tool to share, study, and search certain data around the virtual libraries. 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. Audio visual method is one of the strongest ways of teaching and learning process to prepare best future generation who leads to create the world ahead. Most of the well equipped Indian universities have been implementing such method since two decades.

As Singh (2005) defines: “Any device which by sight and sound increase the individuals' 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:

1. To identify the uses of Audio visual aids at university level.
2. To know the interest of students in Audio visual aids at university level
3. To analyze the effectiveness of Audio visual aids in teaching learning process at university level.

4. To study the effect of Audio visual aids on Numerical dominated subjects and Theoretical dominated subject.
5. To study the effect of Audio visual aids on basic subjects and on applied subjects.
6. To find out the problems in using Audio Visual aids.

### **Method and Procedure:**

The study was descriptive research in nature. Two five point rating scale questionnaire were used to collect the data from engineering students of KIIT University. For basic subject, two numerical dominated subjects such as 'Fluid mechanics and Strength of material' of 3<sup>rd</sup> semester has been choosed for section-1 and section-2 and two theoretical dominated subject such as 'Manufacturing process-1 and Engineering metallurgy' of 3<sup>rd</sup> semester has been choosed for section-1 and section-2. The teachers for section-1 and section-2 are different. Similarly one applied subject 'Automobile engineering' has been opted for the study. Out of the whole population, 150 students were selected through simple random sampling technique. Data from 15 classes has been taken from each section for each subject.

### **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:

<b>Level of agreement</b>	<b>Scaled Value</b>
SA (strongly agreed)	5
A (agreed)	4
UNC (uncertain)	3
DA (dis-agreed)	2
SDA (strongly dis-agreed)	1

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

Where

FSA is frequency of strongly agreed

FA is frequency of agreed

FUNC is frequency of uncertain

FDA is frequency of dis-agreed

FSDA is frequency of strongly dis-agreed

N is number of samples

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 **table no.1**

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 only useful without chalk and talk for Numerical dominated subjects	2.78
10 A.V. aids only useful without chalk and talk for Theoretical dominated subjects	4.01

11 A.V. aids only useful without chalk and talk for	
Basic subjects	3.42
12 A.V. aids only useful without chalk and talk for	
Applied subjects	4.21

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### Conclusion:

A study on the effect of audio visual methodology for teaching learning process has been carried out in the school of mechanical engineering for basic as well as applied subject and for numerical base subjects as well as theoretical subjects for different sections taught by different teachers. With the view of randomly selected 150 students it has been carried out that, teaching of theoretical subjects with the help of audio visual technique are worthful. How ever numerical dominated subjects still need chalk and talk along with audio visual method. But the applied subjects have a tremendous positive feed back with audio visual technique. Still there is a scope for teachers to develop the skill of teaching while teaching with audio visual method. We strongly recommend of training program for teacher to proper use of audio visual material.

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