



A Study on the Effectiveness of Teaching Using Modern Teaching Aids – An Empirical Study with Reference to Final Year Students of R. L. Institutes, Madurai

KEYWORDS

Modern teaching aids, Students, Institutions and Classrooms.

Dr. (Mrs). K.Navarathinam

Asst. Professor, R. L. Institute of Management Studies, TVR Nagar, Madurai – 625022

Mrs. S. Anbuselvi

Asst. Professor, R. L. Institute of Nautical Sciences, TVR Nagar, Madurai – 625022

ABSTRACT

Students are the brand ambassador of any institution. Modern teaching aids such as OHP, LCD, Video – conferencing, etc., are used by almost all educational institutions to provide quality education to the students. As, today most of the classrooms are equipped with modern teaching aids, the authors are interested to know whether the students prefer teaching using modern teaching aids. Statistical tools such as Ranking Analysis, Percentage Analysis and Kolmogorov – Smirnov D test have been used to test the validity of the research.

INTRODUCTION

Industrial development across the globe creates opportunities for specialised jobs. To fulfil the needs of the industries, universities and colleges offer specialised courses both in regular and distant modes. As experts are not available at all places, the colleges find it difficult to recruit specialists to handle specialised subjects. Using Modern teaching aids, lectures can be delivered and received from any part of the world. Also, lectures can be recorded and reused whenever needed.

STATEMENT OF THE PROBLEM

Eye to eye contact makes traditional method of teaching more effective which is lagging in modern teaching methods. Hence, in this study the researchers attempt to find out the effectiveness of teaching using modern teaching aids.

OBJECTIVES

- To find out the effectiveness of teaching using modern teaching aids for various subjects like technical, informative and problem-oriented subjects.
- To know the uses and limitations of using modern teaching aids in teaching.

SCOPE OF THE STUDY

Most of the classrooms today are equipped with audio-visual equipments. The study entitled "A study on the effectiveness of teaching using modern teaching aids" is an attempt to find out the satisfaction level of the students in teaching using audio-visual equipments. This research will help the students as well as the faculty members to know the effectiveness of teaching through audio-visual aids. The study will also help to improve the quality of teaching as well as learning.

RESEARCH DESIGN

The researcher has applied the Descriptive research design for the study. Descriptive research design is applied to the study to portray the characteristics of a group or individual as a situation.

A sample design is a definite plan for obtaining a sample from a given population. It refers to the technique or the procedure the researcher would adopt in selecting items for the sample. The population for the study includes all the final year students of R L Institutes, Madurai. Sample size for the study is 200. The convenience sampling method has been adopted for the purpose of data collection.

Sources of Data collection

The research consists of the application of both primary and secondary data. Primary data was collected by administering

questionnaire cum interview schedules. The secondary data was collected through websites and from various journals and magazines. The collected data was analyzed by using the following tools:

- Percentage analysis
- Ranking method
- Simple average
- Weighted average
- Kolmogorov – Smirnov D test

LIMITATIONS

- The study is limited only to the final year students of R. L. Institutes, Madurai.
- Due to time constraint, the sample size is limited to 200.

ANALYSIS**1. Do you prefer teaching using modern teaching aids?****Table: 1**

Factors	No of students	Percentage
Yes	145	72.5
No	55	27.5
Total	200	100

2. If yes, for which of the following subjects do you prefer?**Table: 2**

Factors	No of students	Percentage
Informative papers	128	88.3
Technical papers	15	10.3
Problem oriented papers	11	7.6

3. If No, why don't you prefer?**Table: 3**

S. No	Factors	No of Respondents	Percentage
1.	No direct contact	47	85.4
2.	Boring	38	69
3.	Faculty simply reading	16	29

Ranking method

If you prefer teaching using modern teaching aids, rank the following factors based on your preference:

Table: 4

Sl.No	Factors	1	2	3	4	5	Σ f x	No of Respondents	Mean	Rank
1.	Notes without mistakes	30	36	20	24	35	437	145	3.01	IV
2.	Easy to understand	26	53	36	10	20	490	145	3.38	III
3.	Time savings	61	32	42	9	1	578	145	3.99	I
4.	Real time examples	44	52	43	4	2	567	145	3.91	II
5.	Clarity	18	21	34	38	34	386	145	2.66	V

Rank	1	2	3	4	5
Value(x)	5	4	3	2	1

Kolmogorov – Smirnov D test

Null hypothesis: There is no difference in satisfaction level among the students for teaching using modern teaching aids.

Table: 5

Kolmogorov - Smirnov table for satisfaction level of the respondents

Satisfaction level	Observed Number	Observed Proportion	Observed Cumulative Proportion	Null Proportion	Null Cumulative Proportion	Absolute Difference
Highly Satisfied	54	0.27	0.27	0.2	0.2	0.07
Satisfied	61	0.305	0.575	0.2	0.4	0.175
Neutral	33	0.165	0.74	0.2	0.6	0.14
Dissatisfied	34	0.17	0.91	0.2	0.8	0.11
Highly Dissatisfied	18	0.09	1.00	0.2	1.0	0

From the above table, it is observed that the largest absolute difference is 0.175, which is known as the Kolmogorov – Smirnov D value.

For a sample size of more than 35, the critical value of D at an alpha of 0.05 is $1.36/\sqrt{n}$.

As sample size is 200,

$$D = 1.36/\sqrt{200} = 0.096$$

As the calculated D value is less than the critical value of 0.175, the hypothesis is accepted.

So, there is no difference in satisfaction level among the students for teaching using modern teaching aids.

FINDINGS

- 72.5% of the students prefer teaching using audio-visual aids.
- About 88% of the students prefer audio-visual aids for informative papers.
- Lack of direct contact is the main reason why the students do not prefer audio-visual aids. (Ex: Video Conference)
- Among the various factors, time savings is the major factor why students prefer modern teaching aids, followed by real time examples, easy to understand, notes without mistakes and clarity.

SUGGESTIONS

- Regular feedback can be collected from the students.
- Proper service and maintenance are essential for the effective usage of audio visual equipments.
- Instead of using audio-visual aids for all topics, it can be used only for the topics for which it is needed.

CONCLUSION

If the modern teaching aids are used appropriately for different subjects, it will make the teaching easy, interesting and finally more effective.

REFERENCE

- C. R. Kothari, "Research Methodology", Viswa Prakashan, New Delhi, 1990, 2nd Edition.
- S.P.Gupta, "Statistical Methods", Sultan Chand & Sons, New Delhi, 1969, 1st Edition