

**EFFECTIVENESS OF AUDIO - VISUAL AIDS ON MATHEMATICS
TEACHING**

**A
THESIS
BY
PRAKASH ACHARYA**

**IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE MASTERS
DEGREE IN MATHEMATICS EDUCATION**

**SUBMITTED
TO
DEPARTMENT OF MATHEMATICS EDUCATION
CENTRAL DEPARTMENT OF EDUCATION
UNIVERSITY CAMPUS, KIRTIPUR
KATHMANDU, NEPAL**

2017

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शिक्षा शास्त्र संकाय
शिक्षा शास्त्र केन्द्रीय विभाग
TRIBHUVAN UNIVERSITY
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CENTRAL DEPT. OF EDUCATION

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Letter of Certificate

This is to certify that **Mr. Prakash Acharya**, Master's Degree student of academic year 2069/2070 with exam Roll No. 280263/2070, campus Roll No. 2058/2069, T.U. Regd. No. 9-2-55-536-2007 and Thesis No. 1092 has completed this thesis under my supervision for the period prescribed by rules and regulations of Tribhuvan University. Thesis entitled **“Effectiveness of audio-visual aids in mathematics teaching”** embodies the result of his investigation conducted during the period of 2016 in the Department of Education, University Campus, T.U. Kirtipur, Kathmandu. I recommend this thesis for acceptance.

.....

(Mr. Arjun Neupane)

Supervisor

Date:

.....

(Asso. Prof. Laxmi Narayan Yadav)

Head



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Ref.

मिति:
Date:

Letter of Approval

A

Thesis

By

Prakash Acharya

This thesis entitled “**Effectiveness of audio-visual aids on mathematics teaching**” submitted by Mr. Prakash Acharya has been accepted as a partial fulfillment for the Master’s Degree of Education.

Committee for the Viva-voce

Signature

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(Chairman)

2. Prof. Dr. Hari Prasad Upadhyay

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(Member)

3. Mr. Arjun Neupane

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(Member)

Date:

DECLARATION

I hereby declare to the best of my knowledge that this thesis is original no part of it was earlier submitted for the candidature of research degree to any university.

.....

Mr. Prakash Acharya

Date:.....

DEDICATION

Dedicated

To

*My respected parents, Bharat Raj Acharya
and Dolkumari Acharya who have devoted their entire life to
uplift and enlighten my life.*

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.....

Mr. Prakash Acharya

ABSTRACT

The study entitled “Effectiveness of audio-visual aids on mathematics teaching.” was focused to find out the effectiveness of audio-visual aid on mathematics teaching in Kathmandu district. It was also aimed at finding out the challenges while using audio-visual aids in secondary level. To gain the motto of the study the researcher adopted pretest posttest nonequivalent group design. For this study, the population was selected from all the secondary schools of Kathmandu district and mathematics teacher taught that school. All together 39 students from two selected schools of grade X.

Two public schools were selected through simple purposive sampling methods; one school as control group and another as experimental group. Researcher taught both school in one month. During one month in experimental group the researcher show 6 videos in three different units. At last researcher take same test to find effectiveness of audio visual aids.

The descriptive analysis and interpretation of data obtained from qualitative tools like unstructured questionnaire, interview schedule over mathematics teacher had shown many challenges while using audio-visual aids in mathematics teaching at secondary level. The necessary data were gathered by the achievement test, unstructured questionnaire and interview schedule and analyzed by using statistical tools t-test and by using conceptual framework of this study.

Finally, Researcher concluded that the audio visual aids helps the students to understand mathematics in better way and consequently students perform better in achievement over conventional method. The implication of the results of this study is that merely change of the teaching method to got a better achievement.

Table of Contents

	Page No
<i>Letter of Certificate</i>	<i>i</i>
<i>Approval letter</i>	<i>ii</i>
<i>Acknowledgement</i>	<i>iii</i>
<i>Abstract</i>	<i>iv</i>
<i>Declaration</i>	<i>v</i>
<i>Dedication</i>	<i>vi</i>
<i>List of Contents</i>	<i>vii</i>
<i>List of Table</i>	<i>ix</i>
<i>List of Figure</i>	<i>ix</i>
<i>List of abbreviation</i>	<i>x</i>
Chapters	
I: INTRODUCTION	1-6
Background of the Study	1
Statement of the Problem	3
Significance of the Study	3
Objective of the Study	5
Hypothesis of the study	5
Delimitation of the Study	5
Definition of the Terms	6
II: REVIEW OF RELATED LITERATURE	7-14
Empirical Literature	7

Theoretical Literature	10
Conceptual Framework	13
III: METHODS AND PROCEDURES	15-27
Design of the Study	15
Population and Sample	16
Source of data	16
Variables of the Study	17
Experimental Validity Treats	19
Tools for the Data Collection	21
Pilot test and Item Analysis	23
Stages of Experiment	24
Data Collection Procedures	25
Data Analysis Procedure	26
<i>IV: ANALYSIS AND INTERPRETATION OF DATA</i>	28-36
Result of Pre-test	28
Result Post-test	29
Effectiveness of audio-visual aids	30
Challenges of using the audio-visual aids in mathematics teaching.	32
V: FINDINGS, CONCLUSION AND RECOMMENDATION	37-41
Findings	37
Conclusion	38
Recommendations	39
References	42
Appendices	44

LIST OF TABLES

	Page No
Table No.1 The design of the study	15
Table No.2 Result of pre-test	28
Table No.3 Result of post-test	29
Table No.4 Scores in mathematics teaching obtained by control group	30
Table No. 5 Scores in mathematics teaching obtained by experimental group	31

LIST OF FIGURE

Figure Number 1. Conceptual framework of the study	13
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List of Abbreviation

AVA	:	Audio Visual Aids
C	:	Control Group
D.I	:	Discrimination Index
Df	:	Degree of Freedom
E	:	Experimental Group
etc	:	Etcetera
SS.	:	Secondary School
ICT	:	Information Communication and Technology
IT	:	Information and Technology
M.Ed	:	Master's in Education Degree
NCED	:	National Center for Education al Development
No.	:	Number
P	:	Difficulty Level
Prof.	:	Professor
ROM	:	Read Only Memory
T.U.	:	Tribhuvan University
ZPD.	:	Zone of Proximal Development