

A STUDY ON AWARENESS OF PUPIL-TEACHERS ON ATAL TINKERING LABS UNDER ATAL INNOVATION MISSION

A Dissertation Report submitted to

Barkatullah University, Bhopal

For the Partial fulfilment of the Award of the

Degree of Master of Education (RIE)

2024-2025

SUPERVISOR

D-739

RESEARCH SCHOLAR

DR. SAURABH KUMAR

ALOK KUMAR YADAV

ASSOCIATE PROFESSOR,

B.Ed-M.Ed (Integrated)

RIE (BHOPAL)



NAAC A++ Accredited

REGIONAL INSTITUTE OF EDUCATION

(National Council of Educational Research and Training)

Shyamla Hills, Bhopal- 462013

DECLARATION

I hereby declare that the dissertation entitled "*A study on Awareness of pupil-teachers on Atal Tinkering Labs*" has been carried out by me during the academic year 2024-2025 in partial fulfillment of the requirement for the degree of Master of Education of Barkatullah University, Bhopal.

This study has been conducted under the guidance and supervision of **Dr Saurabh Kumar**, Associate Professor, Regional Institute of Education, Bhopal.

I also declare that the research work done by me is original and natural. This dissertation has not been submitted before either by me or by any other, for the award of any degree or diploma in any University.

Date:

Alok Kumar Yadav

Place: Bhopal

B.Ed-M.Ed Integrated (RIE)

CERTIFICATE

This is to certify that **Alok Kumar Yadav** a student of Integrated B.Ed-M.Ed. has worked on dissertation entitled "***A study on Awareness of pupil-teachers on Atal Tinkering Labs***" under my supervision for the session 2024-2025

It is his genuine work I consider it worthy of submission for the award of the degree.

Date:

Dr Saurabh Kumar

Place: Bhopal.

Associate Professor,

R.I.E., Bhopal

ACKNOWLEDGEMENT

I express my deep sense of gratitude and sincere thanks to **Dr. Saurabh Kumar**, Associate Professor, Regional Institute of Education, Bhopal for his constant encouragement, continuous guidance and suggestions which were of immense help to maintain a high level of confidence throughout the study.

I am highly thankful to **Prof. S.K. Gupta**, Principal RIE Bhopal, **Prof. Ayushman Goswami**, HOD, Education, **Prof. Ramesh Babu**, **Prof. I.B.Chughtai**, **Prof. Ratnamala Arya**, **Dr. N.C. Ojha**, **Dr. Sanjay kumar Pandagale**, **Dr. Rajesh kumar**, **Dr. Manju**, **Dr. Pawan kumar**, **Dr. J.S. Borgaonkar**, **Dr. Triloki prasad** and **Dr. Madhusudanan**, as well as other faculty members of RIE, for their advice and help for successful completion of dissertation.

I am also grateful to the Librarian **Dr. P. K. Tripathi** and all the staff members of the library who rendered all kinds of possible help and source material for completion of my research study and for allowing me to access the library.

I am thankful to all my classmates who remained as a source of inspiration to me at all the time without whom I could not have accelerated time to time for successful completion of this work. I am thankful to those who helped me directly and indirectly in the completion of this dissertation.

Date:

Alok Kumar Yadav

Place: Bhopal

B.Ed-M.Ed Integrated (RIE)

TABLE OF CONTENTS

DECLARATION.....	i
CERTIFICATE.....	ii
ACKNOWLEDGEMENT	iii
TABLE OF CONTENTS	iv
LIST OF TABLES:	vi
LIST OF Figures:	vii
CHAPTER - I.....	1
INTRODUCTION	1
1.1 Introduction.....	1
1.2 Statement of the Problem:.....	3
1.3 Research questions:.....	3
1.4 Objectives of the study:	3
1.5 Hypotheses:.....	4
1.6 Need for the study:.....	4
1.7 Delimitations of the Study:	4
1.8 Operational Definitions of Key Terms:.....	5
CHAPTER – II.....	7
Review of the related Literature	7
2.1 Review of the related Literature:	7
2.2 Conclusion:	13
CHAPTER - III.....	14
Research Methodology	14
3.1 Research Design.....	15
3.2 Population and Sampling	15
3.3 Data-Collection Instrument.....	15
3.4 Data-Collection Procedure.....	15

3.5 Data Analysis and Presentation.....	16
3.6 Limitations of the Methodology	16
CHAPTER – IV	17
Data Analysis and Interpretation.....	17
4.1 Demographic Background:	17
4.2 Results related to Awareness of pupil teachers on Atal Tinkering Labs:	19
4.2.1 Descriptive Statistics for Awareness on ATL.....	22
4.2.2 Applying one way ANOVA:	23
4.3 Results related to perception of pupil teachers on Atal Tinkering Labs:	24
4.3.1 Descriptive Statistics for Perception on ATL.....	27
4.3.2 Applying one way ANOVA:	29
4.3.3 Applying Pairwise t-Test (assuming unequal variances):	30
CHAPTER – V	36
Major Findings, Conclusions and Recommendations:	36
5.1 Major Findings.....	36
5.2 Discussion and Conclusions:	37
5.3 Recommendations:.....	38
REFERENCES:	40
APPENDIX	41
Section 1: General Information / सामान्य जानकारी	41
Section 2: Awareness on Atal Tinkering Lab / अटल टिकरिंग लैब पर जागरूकता.....	42
Section 3: Perception on Atal Tinkering Labs / अटल टिकरिंग लैब्स पर दृष्टिकोण.....	44

LIST OF TABLES:

Table 4. 1 Percentage distribution of sample by gender and courses.	17
Table 4. 2 Awareness of Pupil-Teachers on Atal Tinkering Lab.	19
Table 4. 3 Course wise Mean Score and Standard Deviation of Awareness on ATL.....	22
Table 4. 4 ANOVA Table on awareness on ATL.....	23
Table 4. 5 Perception of pupil teachers on Atal Tinkering Labs.	24
Table 4. 6 Course wise Mean Score and Standard Deviation of Perception on ATL.....	27
Table 4. 7 ANOVA Table for perception on ATL.....	29
Table 4. 8 Pairwise t-Test for B.A. B.Ed. vs B.Ed.	30
Table 4. 9 Pairwise t-Test for B.A. B.Ed. vs B.Sc. B.Ed.	30
Table 4. 10 Pairwise t-Test for B.A. B.Ed. vs Int. B.Ed.-M.Ed.	31
Table 4. 11 Pairwise t-Test for B.A. B.Ed. vs ITEP.	31
Table 4. 12 Pairwise t-Test for B.Ed. vs BSc. B.Ed.	31
Table 4. 13 Pairwise t-Test for B.Ed. vs Int. B.Ed.-M.Ed.	32
Table 4. 14 Pairwise t-Test for B.Ed. vs ITEP.....	32
Table 4. 15 Pairwise t-Test for BSc. B.Ed. vs Int. B.Ed.-M.Ed.	32
Table 4. 16 Pairwise t-Test for BSc. B.Ed. vs ITEP.....	33
Table 4. 17 Pairwise t-Test for Int. B.Ed.-M.Ed. vs ITEP.....	33

LIST OF Figures:

Figure 4. 1 Graphical representation of Mean Score and Standard Deviation of Awareness on ATL	23
Figure 4. 2 Graphical representation of Mean Score and Standard Deviation of Perception on ATL	28