

**A Study of Correlation of Scholastic  
Achievement in Science with  
Environmental Attitude and  
Environmental Practices of  
VIII-Grade Students**

**DISSERTATION**

*Submitted in Partial fulfillment of the requirement for the degree*

*Of*

**MASTER OF EDUCATION**

**(ELEMENTARY EDUCATION)**

**SESSION : 2004-2005**

**To**

**BARKATULLAH UNIVERSITY, BHOPAL**



**Guided By**

**Shri. Anand Valmiki**  
Lecturer in Education  
RIE, BHOPAL

**Submitted By :**

**Chandan D. Kulkarni**  
M.Ed. (Ele. Edu.)  
RIE, BHOPAL

**REGIONAL INSTITUTE OF EDUCATION**

**(NCERT)**

**Shyamla Hills, Bhopal (M.P.)**

2  
0  
0  
4  
:  
2  
0  
0  
5

*A Study of Correlation of Scholastic  
Achievement in Science with Environmental  
Attitude and Environmental Practices of  
VIII – Grade Students*

**DISSERTATION**

*Submitted in Partial fulfillment of the requirement for the degree*

Of

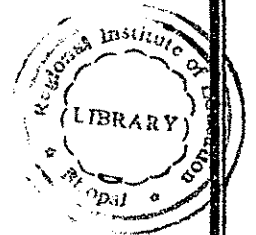
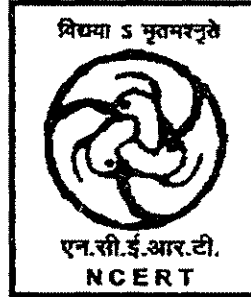
**MASTER OF EDUCATION**

**(ELEMENTARY EDUCATION)**

**SESSION: 2004-05**

To

***BARKATULLAH UNIVERSITY, BHOPAL***



Guided by:

**Shri. Anand Valmiki**  
Lecturer in Education,  
RIE, BHOPAL

Submitted by :

**Chandan D. Kulkarni**  
M.Ed. (Ele. Edu.)  
RIE, BHOPAL

**REGIONAL INSTITUTE OF EDUCATION**

(N.C.E.R.T)

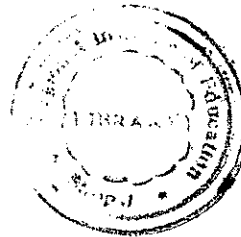
Shyamla Hills, Bhopal. (M.P.)

# CERTIFICATE

This is to certify that *Mr. Kulkarni Chandan Dileep Rao*, a student of M.Ed. (Elementary Education) course, of Regional Institute of Education, Bhopal in the year 2004-2005 has worked under my guidance. His dissertation "*A study of correlation of Scholistic Achievement in Science With Environmental Attitude and Environmental Practices of VIII-Grade Students*", is original and worthy of presentation in partial fulfillment of degree of Master of Education. (Ele. Edu.) of Barkatullah University, Bhopal (M.P.) The present study is an outcome of his own sincere research efforts.

Place : Bhopal  
Date : 7/09/05.....

*Anand*  
Shri Anand Valmiki  
Lecturer in Education  
Regional Institute of Education  
Bhopal



## Acknowledgement

I take this opportunity to express my gratitude to my guide **Shri. Anand Vamiki Sir**, Who helped me in execution of this study. I thank him for his valuable advice, continuous help, inspiring guidance and encouragement in the completion of the study. I owe gratitude and regards for his generosity.

I am indebted to **Prof. M. Sen Gupt Sir**, Principal, RIE and **Prof. Mrs. A. Grewal Madam**, Dean of instruction, Education Department, RIE. Bhopal, for their inspiring co-operation and for providing enough learning facilities, educational environment in a campus.

I extend my gratitude to all the **Faculty members** of the Dept. of Education R.I.E Bhopal for their affectionate care in completion of this study, my sincere thanks to all of them.

I equally thank to **Dr. U. Laxminarāna Sir**, for helping me in statistical analysis of this study. I am grateful to **Shri. P.K.Tripathi. Sir** Liberation RIE, Bhopal and all other library staff members for extending library facilities and helping in locating reference materials

I am also thankful to **The Heads, Teachers and Students of the institutes**, who were kind enough to offer me full co-operation in collection of an adequate and precise data.

I also thanks my all **Twenty Classmates**, who remained as a source of inspiration to me at all the time, without whom I can't get accelerated time to time for completion of this work.

I am heartily thankful to all other known unknown RIE members whose blessing and good-wishes were always with me during completion of this work.

Above all I owe my sincere gratitude to my beloved **Parents** for being perennial source of inspiration to me.

Thanks.

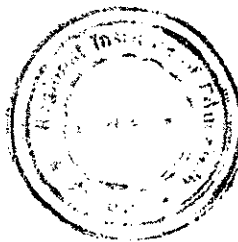
Place : Bhopal  
Date : 7/10/05...



*Chandan K*  
- Chandan D. Kulkarni  
M.Ed. (Ele . Edu)  
R.I.E. Bhopal.

*" ..... An environmentally  
literate citizenry and continued environmental  
education programs, will make it possible to  
develop new knowledge and skills, values and attitudes,  
in a drive toward a better quality of environment and,  
indeed towards a higher quality of life  
for present and future  
generations....."*

William B. strapp



## Index

Chapter No.	Name of the Chapter	Page No.
<b>I.</b>	<b><u>Introduction</u></b>	<b>1 – 11</b>
1.1	Introduction	2
1.2	Need of Importance	7
1.3	Statement	8
1.4	Objective	8
1.5	Hypothesis	9
1.6	Operational Definitions	10
1.7	Delimitation	11
<b>II.</b>	<b><u>Review of related literature</u></b>	<b>12 – 22</b>
2.1	Introduction	13
2.2	Related Studies in India	14
2.3	Related Studies Abroad	20
2.4	Summary	22
<b>III.</b>	<b><u>Research Methodology</u></b>	<b>23 – 29</b>
3.1	Introduction	24
3.2	Sample	24
3.3	Variables	27
3.4	Research Tools	28
3.5	Administration of Research Tool.	28
<b>IV.</b>	<b><u>Presentation, Analysis and Interpretation</u></b>	<b>29 – 48</b>
4.1	Introduction	30
4.2	Data, presentation, data analysis and data interpretation.	32
4.3	Descriptive Statistics	33
4.4	Testing of Hypothesis	40



V.	<b><u>Conclusions and Suggestions</u></b>	49 – 58
5.1	Introduction	50
5.2	Objectives	50
5.3	Hypothesis	51
5.4	Variables	52
5.5	Research Design	53
5.6	Sampling	53
5.7	Tools	54
5.8	Analysis of data	54
5.9	Major findings	55
5.10	Conclusion	56
5.11	Suggestion	58

### **Bibliography**

#### **Annexure**

- 1) Environmental Attitude Scale
- 2) Environmental Practice Questionnaire



## LIST OF THE ABBREVIATIONS

SR. No.	Abbreviations No.	Full Form
1)	En. At.	Environmental Attitude
2)	E.E.	Environmental Education
3)	En. Pr.	Environmental Practices
4)	S.A.S.	Scholastic Achievement in Science
5)	SD	Standard Deviation
6)	UNEP	United Nations Environmental Programmes
7)	UNESCO	United Nations Educational Scientific and Cultural Organization





## LIST OF THE TABLES

SR. No.	Table No.	Title	Page No.
1.	3.1	Sample of the Study	27
2.	4.1	Scholastic achievement on Science	33
3.	4.2	Environmental Attitude	35
4.	4.3	Environmental Practices	37
5.	4.4	Comparison of Mean and S.D	38
6.	4.5	Comparison of En. At. and En. Pr.	39
7.	4.6.1	Correlation between S.A.S. and En. At.	41
8.	4.6.2	Correlation between S.A.S. and En. Pr.	42
9.	4.6.3	Correlation between En. At. and En. Pr.	43
10.	4.7.1	Comparison of Mean of S.A.S of Urban and Rural Students	43
11.	4.7.2	Comparison of Mean of En. At. of Urban and Rural Students	44
12.	4.7.3	Comparison of Mean of En. Pr. of Urban and Rural Students.	45
13.	4.8.1	Comparison of Mean of S.A.S of Boys and Girls Students	46
14.	4.8.2	Comparison of Mean of En. At. of Boys and Girls Students	47
15.	4.8.3	Comparison of Mean of En. Pr. of Boys and Girls Students	47



## LIST OF THE GRAPHS

SR. No.	Graph No.	Title	Page No.
1.	I	Scholastic achievement in Science	34
2.	II	Environmental attitude	36
3.	III	Environmental practices	37
4.	IV	Comparison of Means	39
5.	V	Comparison of En. At. & En. Pr.	40
6.	VI	Comparison of Means of S.A.S., En. At. and En. Pr. of Urban and rural students.	46
7.	VIII	Comparison of Means of S.A.S., En. At. and En. Pr. of Boys and Girls students.	48

