

Chapter – IV

**DATA ANALYSIS AND
INTERPRETATION**

4.0 INTRODUCTION

Analysis of data means studying the tabulated material in order to determine inherent facts or meanings. It involves breaking down existing complex factors into simpler parts and putting the parts together in new arrangements for purposes of interpretation.

“The analysis and interpretation of data involve the objective material in the possession of the researcher and his subjective reactions and desires to derive from the data the inherent meanings in their relation to the problem. To avoid making conclusions or interpretations from insufficient or invalid data, the final analysis must be anticipated in detail when plans are being made for collecting information. The problem should be analyzed in detail to see what data are necessary in its solution and to be assured that the methods used will provide for definite answers. The researcher must determine whether or not the factors chosen for study will satisfy all the conditions of the problem and if the sources to be used will provide the requisite data.”²

Analysis of research data is an important step in the dissertation process. Analysis of data means study the tabulated material in order to determine the inherent facts or meaning. It involves breaking up of the complex facts into simpler parts and putting them into new arrangements for the purpose of interpretation. The purpose of this chapter is to report the main findings about the attitude of students towards vocational education. The results of the study will be presented in this chapter. The purpose of this study was to examine the attitude of students towards vocational education. As per the design of the study, the data was collected and analyzed by applying statistical methods for research. The results are presented here are according to the objectives and hypothesis in the sequence as presented in chapter one.

4.1 ANALYSIS OF DATA AND INTERPRETATION

The data was collected from the students from the schools of Bhopal city which were selected for the study. As discussed in the previous chapter, two government and two private schools were taken for purposive sampling secondary students were randomly selected for survey. The most logical way to structure quantitative results is to frame them around the hypothesis.

4.2 OBJECTIVE OF THE STUDY

- To study the attitude towards environmental education among secondary school students.
- To study the awareness towards environmental education among secondary school students.
- To study the attitude in boys and girls school students towards environmental education.
- To study the awareness in boys and girls school students towards environmental education.

4.3 HYPOTHESIS

H₀₁ There will be no significant difference in environmental education awareness between boys and girls.

H₀₂ There will be no significant difference in environmental education attitude between boys and girls.

4.4 OBJECTIVES AND HYPOTHESIS WISE ANALYSIS AND INTERPRETATION OF DATA

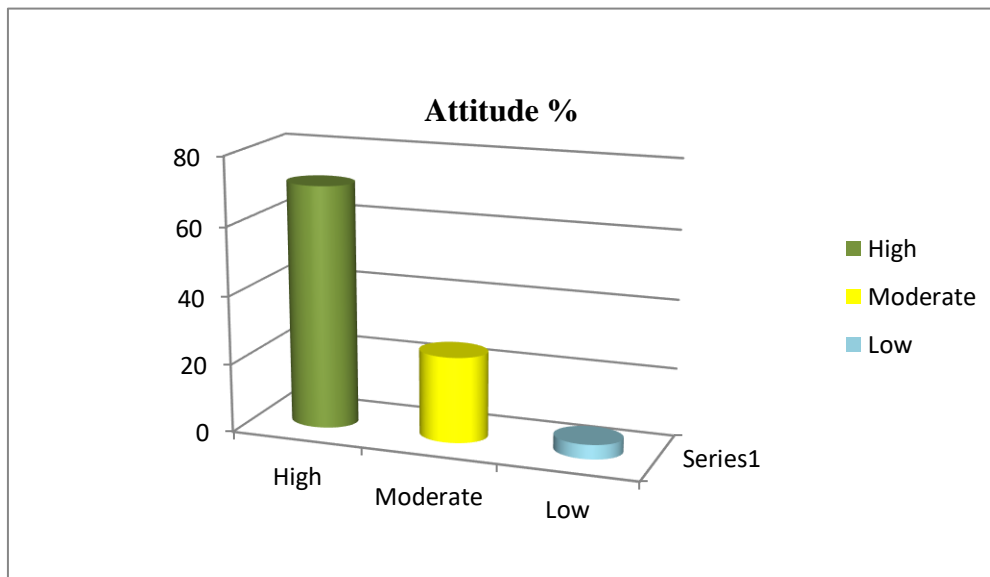
To achieve the objective, hypothesis were formulated by the researcher. Following is the analysis and interpretation of data for the objectives and hypothesis.

Objective 1: To study the attitude towards environmental education among secondary school students

Table 4.1 : To study the Attitude of secondary school students towards environmental education

	INTERPRETATIONS	NO. OF STUDENTS	PERCENTAGE
Secondary school students	High attitude towards environmental education	85	70.8%
	Moderate attitude towards environmental education	30	25%
	Low attitude towards environmental education	5	4.2%

Figure 4.1 : Attitude of secondary school students towards environmental education



Interpretation

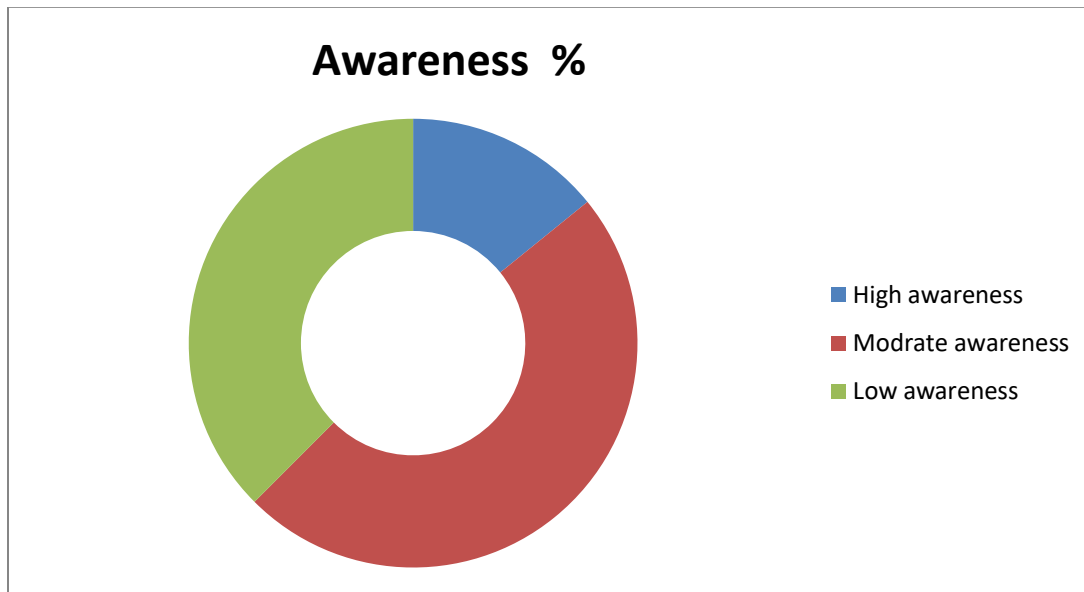
As result administrating attitude towards the environmental education on the sample of 120 secondary school students 70.8% showed high attitude towards environmental education while 25% students showed moderate attitude towards environmental education and 4.2% students showed low moderate attitude towards environmental education. From the chart it can conducted that there is a moderate attitude of secondary school students towards environmental education.

Objective 2 : To study the awareness towards environmental education among secondary school students

Table 4.2 To study the Awareness of secondary school students towards environmental education

	INTERPRETATIONS	NO. OF STUDENTS	PERCENTAGE
Secondary school students	High Awareness towards environmental education	17	14.16%
	Moderate Awareness towards environmental education	58	48.33%
	Low Awareness towards environmental education	45	37.5%

Fig. 4.2. Awareness secondary school students towards environmental education secondary school students towards environmental education



Interpretation

As result administrating awareness towards the environmental education on the sample of 120 secondary school students 14.16% showed high awareness towards environmental education while 48.33% students showed moderate awareness towards environmental education and 37.5% students showed low moderate awareness towards environmental education. From the chart it can conducted that there is a moderate awareness of secondary school students towards environmental education.

Objective 3 : To study the difference in environmental attitude between boys and girls.

Hypothesis 1 : There will be no significant difference in environmental education attitude between boys and girls.

4.3 Difference between boys and girls of secondary schools students towards environmental education

Table 4.3 : Difference on the basis of boys and girls

S.No.	Groups	N	Mean	SD	t- value	df	Significance at 0.05 (t-critical)
1.	Boys	60	11.5	1.926	0.95	118	Not significant
2.	Girls	60	11.9	2.79			

Result

There is no significant difference in attitude between boys and girls of secondary school students towards environmental education.

Therefore hypothesis number 1 “There is no significant difference in attitude between boys and girls secondary school students towards environmental education ” is accepted.

So it can be concluded that the boys and girls of secondary school students have almost similar attitude towards environmental education.

Objective 4 : To study the difference in environmental c between boys and girls. .

Hypothesis 2 : There will be no significant difference in environmental awareness between boys and girls

4.4 Difference between boys and girls of secondary schools students towards environmental education

Table 4.4 : Difference on the basis of boys and girls

S.No.	Groups	N	Mean	SD	t- value	df	Significance at 0.05 (t-critical)
1.	Boys	60	75.16	10.10	3.58	118	significant
2.	Girls	60	80.45	5.34			

Interpretation

From table 4.4 the mean score of boys is 75.16 and girls is 80.45 and the standard deviation of boys and girls group is 10.10 and 5.34 respectively. It is evident that calculated t-value for the degree of freedom 118 is found to be 3.58 . The tabulated t-value at 0.05 level and infinity degree of freedom is 1.960. As calculated t-value is grater than the table value, so it is significant at 0.05 level of significance. Therefore, we have to reject the null hypothesis. This shows that “There is significant difference in awareness between boys and girls secondary school students towards environmental education”.

Result

There is significant difference in awareness between boys and girls of secondary school towards environmental education. Therefore hypothesis number 2 “There will be no significant difference in environmental awareness between boys and girls” is accepted. So it can be concluded that the girls of secondary school have more aware than the boys of secondary school towards environmental education.

There is significant difference in awareness between boys and girls of secondary school towards environmental education. Therefore hypothesis number 2 “There is significant difference in awareness between boys and girls of secondary school towards environmental education” is rejected. So it can be concluded that the boys of secondary school and girls of secondary school have not similar awareness towards environmental education.

4.5 CONCLUSION

This chapter focused on the presentation and interpretation of the data which was collect from secondary school students of Bhopal city. The data was collected using questionnaire the attitude of all participants are clearly about environmental education. These response of sampled participants manifest in findings that are fundamentally explanations of their attitude. The data was collected using questionnaire the awareness of all participants are clearly about environmental education. These response of sampled participants manifest in findings that are fundamentally explanations of their awareness.