CHAPTER THREE

METHODOLOGY

3.1 Introduction

The present chapter deals with Methodology the study which involves selection of sample, variable investigated, tool and techniques used for data collection, administration of tool for collecting data, scoring and statistical technique used for data analysis.
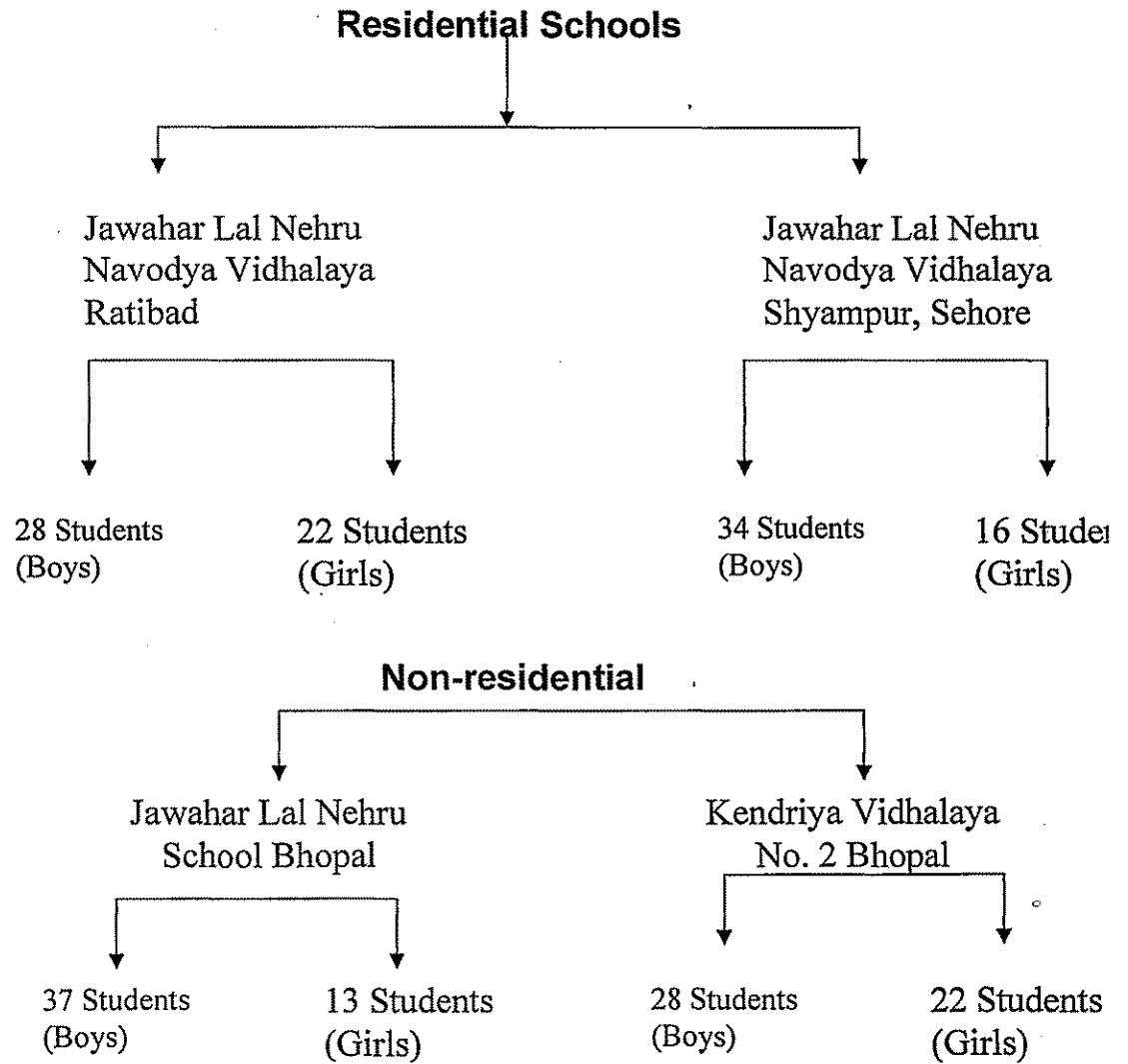
3.2 Sampling

Most of the educational phenomena consist of a large number of units. Sampling is the process by which a relatively small number of individuals or measures of individuals object or events is selected and analyzed in order to find out something about the entire population from which it was selected.

For selecting the school as a sample for non-residential school there are 53 no. of school in which two schools are randomly selected by lottery. For residential school only two were selected.

For the present study the sample was drawn using method of simple random sampling. To draw a simple random sample, a table of random numbers was used. For this purpose list of all the students studying in VIII class of residential and non-residential schools of Bhopal obtained and the names were arranged alphabetically.

Gender wise distribution of sample

Residential Schools

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                    Residential Schools
          ┌────────────────────┴────────────────────┐
   Jawahar Lal Nehru                          Jawahar Lal Nehru
   Navodya Vidhalaya                          Navodya Vidhalaya
   Ratibad                                    Shyampur, Sehore
     ┌──────────┴──────────┐                   ┌──────────┴──────────┐
28 Students        22 Students          34 Students        16 Studer
(Boys)             (Girls)              (Boys)             (Girls)
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Non-residential

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                    Non-residential
          ┌────────────────────┴────────────────────┐
   Jawahar Lal Nehru                          Kendriya Vidhalaya
   School Bhopal                              No. 2 Bhopal
     ┌──────────┴──────────┐                   ┌──────────┴──────────┐
37 Students        13 Students          28 Students        22 Students
(Boys)             (Girls)              (Boys)             (Girls)
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Out of a total number 430 students, a sample of 200 students of class VIII students including 127 boys and 73 girls was drawn which served as the sample for the present study.

3.3 Variables

A variable is a property that takes on different values, it is something that varies. The nature of variables i.e. dependent or independent based upon the statistical techniques given by the investigators in a particular study.

In the present study the variables were :-

1. Dependent Variables – Study Habits, Academic Achievement

2. Independent Variables- students study in residential schools and non- residential schools.

3.4 Tools and Techniques

A researcher requires an appropriate data gathering tools or techniques. Each tools is suitable for the collection of the certain type of information. One has to select from the available tools those which will provide data she / he seek for testing hypothesis.

In order to assess the study habits of the students a "Study habits Inventory" was developed on the line of a study habit by researcher herself. The inventory of Dr. B.V. Patel was also used. The prepared tool of "study habit inventory" was administered on a small sample and the tool was modified by the researcher on the basis of the analysis.

The final version of the tool "study habit inventory consisted of 32 statement.

It has five dimensions :-

1.   Studies in home/ Hostel

2.   Studies during examination.

3.   Studies during classroom interaction

4.   Time devoted on study .

5.   Different style of studies

Each 32 statement was having 3 options "Always," "Sometimes" and "Never". Among 3 options the student was asked to mark ($\sqrt{}$) on the option that he/she choose. No time limit was given to complete the inventory. For the academic achievement the previous records of VIII class were collected from the school office.

3.5   Administration of the tool

After getting the letter for data collection from the education deptt. RIE Bhopal by the Head we were proceed for the data collection.

After selecting and developing the appropriate tool the task was to administer it on the student. Before administration of tool, permission of the school principal was obtained . Principal instructed to one of the senior teacher for help. Then he will allotted me time and date for administrating the tool. To carry out the process of data

collection for research. The research scholar prepared a detailed schedule in which time and date were allotted.

On the allocated date and time the inventory were administered on the students of Residential and Non-Residential School.

A proper seating arrangement was there while completion of inventory. 200 copy of inventory was distributed to students as per the schedule given. The instruction and detailed information regarding the tool was given to student for their convenient. Each student get 45 min. to complete the inventory. In between some queries of the student were also solved by research scholar. After the completion of the inventory if get back collected from the students.

The research scholar met to the administrator for the school record of VIII class students. All the information regarding to the data collection were taken from the school office and then I came back from the school office.

Schedule for data Collection

S.No.	School	Date	Time
Residential School			
1.	Jawahar Navodaya Vidhyalaya Ratibad	4-2-08	12: 15 to 1:00PM
2.	Jawahar Navodaya Vidhyalaya Shyampur	5-2-08	1: 00 PM to 1:45 PM
Non- Residential School			
1.	Jawahar Lal Nehru School Bhopal	2-2-08	11:00AM to 11:45 AM
2.	Kendriya Vidhyalaya-2 Shivaji Nagar, Bhopal	8-2-08	10:00AM to 10:45 AM

3.6 Scoring

The instruction given in **"STUDY HABITS INVENTORY"** were.

The student have to mark ($\sqrt{}$) on the 32 statement having three option they choose correct.

If they marked "Always" they got (2) marks, If they marked "Sometimes" they got (1) marks and if they marked never they got (0) points. In this way the maximum possible score was 64. Other possible scores would range in between 0 and 64.

Study habits inventory was evaluated by the research scholar herself .

3.7 Statistical Techniques used :-

The data collected was tabulated and for analysis statistical techniques like mean, standard deviation, coefficient of correlation and t-test were used.