

METHODOLOGY

CHAPTER III

METHODOLOGY

3.0.0 Introduction

Research in common parlance refers to a search for knowledge. One can also define research as a scientific and systematic search for pertinent information on a specific topic.

Research is an academic activity and as such the term should be used in the technical scene.

According to Clifford woody research comprises

- ❖ Defining and redefining problems,
- ❖ Formulating hypothesis or suggested solutions;
- ❖ Collecting organising and evaluating the data;
- ❖ Making deductions and reaching conclusions;
- ❖ Testing the conclusions to determine whether they fit the formulating hypothesis.

Research is, thus, an original contribution to the existing stock of knowledge making for this advancement. It is the pursuit of the truth with the help of study, observation comparison and experiment.

The clear knowledge about the methodologies makes the results qualitatively valid. Mythologies of the study have been discussed in the following headings.

3.1.0 Area of the study

In Coimbatore district 15 schools are rendering services to Children With Special Need were identified for the study. The inclusive schools were

1. Corporation Elementary school, Ganeshpuram
2. Corporation Middle school, Ukkadam
3. Corporation Primary school, Thadagam Road
4. Corporation Elementary school, Ganapathy
5. Corporation Primary school, Ondipudur
6. Corporation Middle school, Ramakrishnapuram, Ganapathy
7. Corporation Primary school, Rathinapuri
8. Corporation Primary school, Peelamedu Pudur
9. Corporation Middle school, P.N.Palayam
10. Corporation Middle school, Singanallur
11. V.V.C. Corporation primary school, Puliakulam
12. Corporation Primary school, Nesavalacolony, Ondipudur
13. Corporation primary school, Maniyakaranpalayam
14. Corporation Primary school, Neelikonampalayam
15. Corporation Primary school, R.S Puram.

3.2.0 Selection of sample for the study

One of the most important aspects in research study is selection of the samples. The samples for the study consisted of 30 children with special needs from corporation school and aided school in the Coimbatore district. Purposive sampling technique were followed to select the samples.

3.2.1 Distribution of the sample

Name of the school	Location of the school	V.I	L.V	H.I	C.P	O.I	Total
Corporation Elementary school	Ganeshpuram	-	-	-	-	2	2
Corporation Middle school	Ukkadam	-	-	-	-	1	2
Corporation Primary school	Thadagam Road	-	-	-	1	1	2
Corporation Elementary school	Ganapathy	5	-	-	-	-	5
Corporation Primary school	Ondipudur	-	-	-	1	-	1
Corporation Middle school	Ramakrishnapuram, Ganapathy	-	1	2	-	-	3
Corporation Primary school	Rathinapuri	-	-	2	1	-	3
Corporation Primary school	Peelamedu Pudur	1	-	-	-	-	1
Corporation Middle school	P.N.Palayam	-	-	-	1	-	1
Corporation Middle school	Singanallur	-	1	-	-	-	1
V.V.C. Corporation primary school	Puliakulam	-	1	-	-	2	3
Corporation Primary school	Nesavalarcholony, Ondipudur	-	1	-	-	-	1
Corporation primary school	Maniyakaranpalayam	-	1	-	-	-	1
Corporation Primary school	Neelikonampalayam	-	-	1	-	-	3

Corporation Primary school	R.S Puram	-	-	1	-	-	1
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V.I - Visually Impaired L.V - Low Vision

H.I - Hearing Impaired C.P - Cerebral Palsy

O.I - Orthopedically Impaired

3.3.0 Variables of the study

Appropriate variable selection plays a vital role in the educational research. In the presence; the dependent variables were the academic achievement of children with special needs in primary school.

The independent variables in the study are shown in the below table.

3.4.0 Independent variables and their level

Variables	Levels
Type of Disability	Visually Impaired
	Low Vision
	Hearing Impaired
	Cerebral Palsy
	Orthopedically Handicapped
Gender	Boys
	Girls
Age group	Appropriate age
	Inappropriate age
Economic Status	Low Income
	Middle Income

3.5.0 Design of the study

Since the aim of the study is to find out the academic achievement of the children with special needs, the survey method, interview method, observation method were followed for the collection of data.

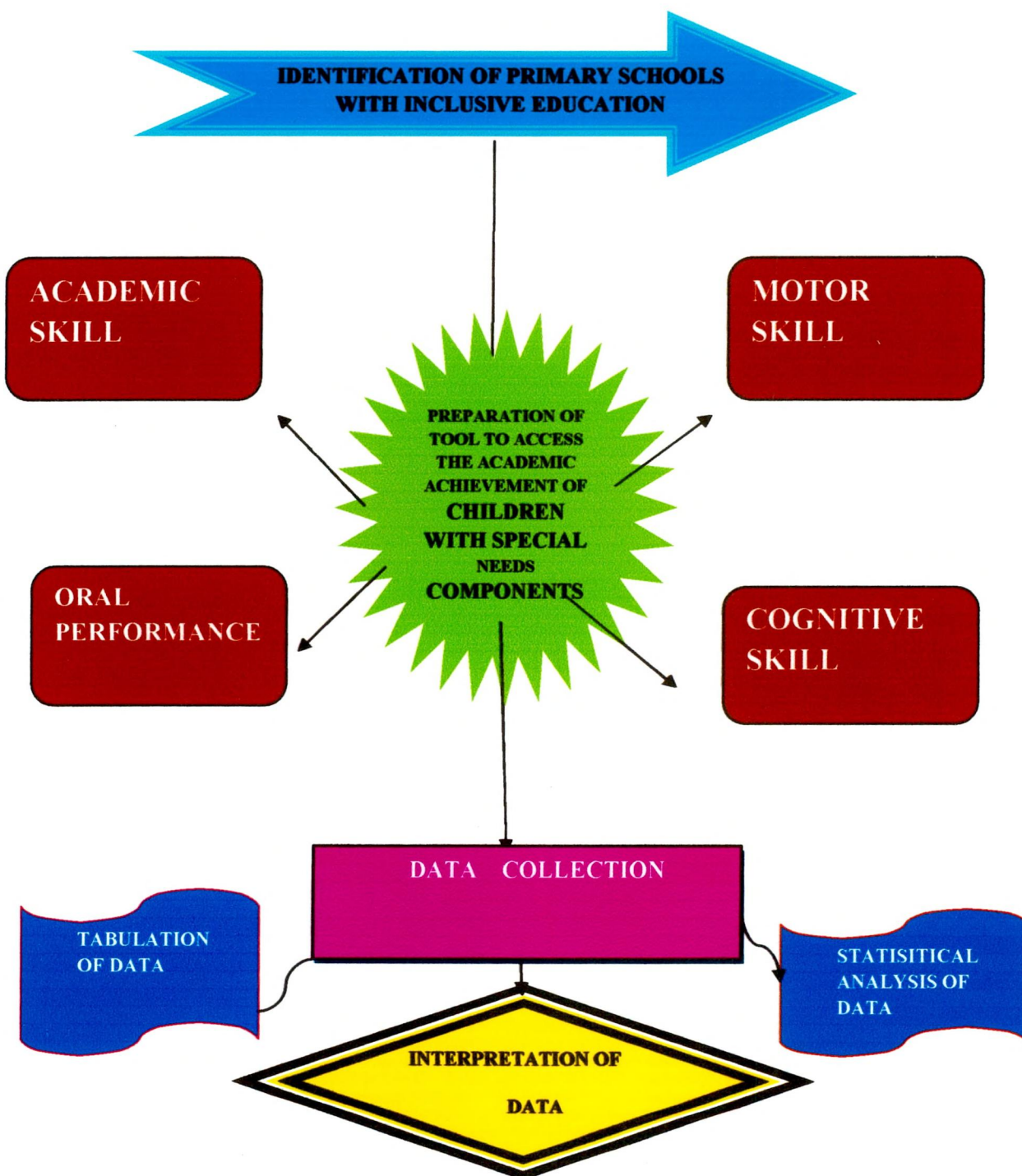


FIGURE-I

FLOWCHART SHOWING THE DESIGN OF THE STUDY

3.6.0 Construction of tool

The tool consists of four domains pertaining to academic achievement of children with special needs. They are namely academic skill, motor skill, oral performance and cognitive skill. The items were arranged in hierarchical order with tick options.

3.7.0 Administration of the tool

The personal data form is used to collect the particulars of the sample (the primary class children with special needs) starting from name, age, address, and academic qualification which serves as basis for the study. Personal data form supports a researcher to know the onset of disability and any other member in the family have disability. The locality (rural/urban) and the economical position of parents help the researcher to get a better idea about the sample.

3.8.0 Scoring procedure

MARK RANGE	DESCRIPTION	GRATE	RANGE POINT
90-100	Outstanding	A	5
75-89	Excellent	B	4
56-74	Very Good	C	3
35-55	Good	D	2
00-34	Scope for Improvement	E	1

Five point rating scale is used in this study. The scoring procedure contain grading method.

3.9.0 Pilot study

A pilot, or feasibility study, is a small experiment designed to test logistics and gather information prior to a larger study, in order to improve the latter's quality and efficiency. A pilot study can reveal deficiencies in the design of a proposed experiment or procedure and these can then be addressed before time and resources are expended on large scale studies.

A good research strategy requires careful planning and a pilot study will often be a part of this strategy. Feasibility study was done in Corporation Primary school, Rathinapuri School with 3 samples by the developed tool.

3.10.0 Jury opinion

The investigator distributed the tools to a group of experts, specialists and trainers. According to their advice, opinion and suggestions of few statements in the checklist were modified.

3.11.0 Conduct of the study

The study was conducted in five phases.

Phase I

In phase I, the personal information of the student like age, gender, family back grounds, history of the sample were selected.

Phase II

In phase II, the tool was developed to assess the academic achievement of children with special needs enrolled in the inclusive education (primary schools).

Phase III

In phase III, the data was collected by using interview, observation, and evaluating the performance of the students. The above method was used as per the need of the items in the tool.

Phase IV

In the phase IV, the collected data was analysed and interpreted in order to conclude the academic assessment of primary children enrolled in the primary school.

Phase V

Statistical analysis was done to identify the academic achievement of children with special needs.

3.12.0 Statistical techniques used in the study

The obtained data have been analyzed by using appropriate statistical techniques. The investigator used qualitative procedure and quantitative procedure to analyze the data. To study the effect of age, gender, economic status and type of disability among the children with special needs, mean and standard deviation have been calculated. Based on the mean and standard deviation t-test have been worked out, Whenever two groups are involved in a variable, t- test has been used to know the significant differences between these groups. Correlation also calculated for the study.

$$\text{Mean } X = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{\sum X}{n}$$

$$\text{Median} = \left(\frac{n+1}{2} \right) \text{th item}$$

Standard deviation

$$\sigma = \frac{\sqrt{\sum (d)^2}}{n}$$

3.13.0 Conclusion

This chapter describes the detailed information about the area, selection of the sample, design of the study, process and collection of data and the statistical techniques used in the study.



PLATE I
INTERACTING WITH THE SELECTED SAMPLES



PLATE II
ASSESS THE ACADEMIC ACHIEVEMENT OF THE SAMPLE