

CHAPTER - III
METHODOLOGY

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3.0.0 INTRODUCTION

In this chapter the design of the study, sampling, development of tools and procedures of data collection and analysis has been discussed. The present study which is descriptive in nature, using survey method of research was undertaken to critically examine the effectiveness of online education in hearing impaired students of higher secondary level in an aided school of Thrissur district of Kerala.

The students of higher secondary students of Humanities batch and Commerce batch were considered for participation in the survey. The administrator of the school and the principal accepted the proposal of doing a survey in the school and given much support and encouragement to complete the survey successfully along with the co-operation of teachers and students of the school.

3.1.0 METHODOLOGY

The samples of one class of Humanities group and Commerce group were selected from the school's higher secondary section. A descriptive survey was designed based on the parameters to study about students' perceptions on online education. The data collected from the survey was statistically analysed for alignment with the said parameters. Special focus was given on the following aspects.

1. Perceptions about online learning.
2. Preferable online learning atmosphere.
3. Curricular achievement from online classes.
4. Preparations needed to undergo online classes.
5. Gender based students' perceptions on online classes.

3.2.0 POPULATION

The population of the present study comprises all the hearing-impaired students studying in higher secondary in the Kerala state.

3.3.0 SAMPLE

The sample of the study comprises of 40 hearing-impaired students of class XII commerce and humanities streams of Asha Bhavan Higher Secondary school for the Deaf, Thrissur. A sample is a small proportion of population selected for observation and analysis. It is a collection consisting of a part of subset of the objects or the individuals of the population which is selected for the exclusive of representing the population. In the present study, the target population will be all the hearing-impaired students of Thrissur district of Kerala.

3.4.0 TOOLS AND TECHNIQUES

Tools and techniques in research are the statistical methods of collection, analysis, interpretation, presentation, and organization of data. Statistics provides numerous tools and techniques to analyse the data and interpret the results of the analysis. It is a skeleton of a study or research. It is used to measure the pros and cons of a study. It supports the research findings which can be helpful to further development of the study.

3.5.0 PROCEDURE OF DATA COLLECTION

The tools to study the perceptions of hearing-impaired students on online learning was developed. All the suggested changes were incorporated. The researcher selected the sample to collect the data. The researcher approached the principal of the school and taken permission to perform the survey and to collect data. Students were explained the purpose of the study and were instructed how to respond to the tool on their perceptions about online learning. Further clarifications were given for the questions and doubts raised by them. The researcher herself administered the tools after establishing the rapport with the students. The students were directed to follow the instructions that were given on the tests before answering them. Then the sample was taken from the schools by administering the test. The responses of the students on the tools were scored as specified in the tools, tabulated and subjected to statistical analysis. The results were then analysed and interpreted using the statistical techniques of t-test and correlation.

3.6.0 GENERATING THE RESPONSE DISTRIBUTION

A value was designated as an identifier of the outcomes. Students answered the scale by marking in 5- point rating scale from Strongly Agree to Strong Disagree for analysing their perceptions on online learning.

Table:3.1 Scoring for Perceptions

Items	Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree
Positive	5	4	3	2	1
Negative	1	2	3	4	5

3.7.0 TECHNIQUES USED FOR THE ANALYSIS OF DATA

The researcher's intention with the study was to analyse the perceptions of the hearing-impaired students on online learning. Hence, the researcher in order to analyse the data, used the descriptive statistics with the aid of t-test and followed by Pearson Correlation techniques. Percentage calculation is also done to understand the level of perceptions of students on online learning.