RESEARCH METHODOLOGY

- Redman and many define research as a systematized effort to gain new knowledge thus research is a systematic process answering to the question about events or phenomena through the application of scientific methods. It is an act of objective, empirical and logical analysis and recording of controlled observation. Research comprises defining and redefining problems.

Research is the formal systematic application of the scientific method to the study of educational problems.

Research in education can be classified into different types.

1) Historical research
2) Descriptive research
3) Experimental research

In this research researcher will use the Descriptive survey method.

Sample

A sample is a small portion of population which is selected by the researcher for observation and analysis in the present study the sample comprises of six hundred pupil teacher in following manner.

Tools for collecting data

Research will choose the following tools for collecting data
1) Teaching aptitude test battery (TATB)
   by R.P. Singh, S.N. Sharma (Patna university Patna)
2) Teacher attitude inventory (TAI)
   by S.P. Ahluwalia

Techniques for data analysis

To analyze the researcher will use the following status ties
1- mean
2- 't' value
3- co-relation
4- analysis of variable
Mean (X)

Mean of a distribution is defined as the arithmetic average. The term grade-point average is a Mean value. It is computed by dividing the sum of all the observations divided by the number of observations. In formula form
\[ \bar{X} = \frac{\sum X}{N} \]

Where \( \bar{X} \) = Mean
\( \sum \) = sum of
\( X \) = observations
\( N \) = number observations

Mean = \( A + \sum fdx/N \) X i

A = Assumed mean
dx = deviation to mean
i = class interval
N = Sample

SD (\( \rho \)) = \( \sqrt{\frac{\sum (X-\bar{X})}{N}} \)

OR

\[ \sigma = \sqrt{\frac{\sum fdx^2}{N} - \left(\frac{\sum fdx}{N}\right)^2} \]

CR = \[ \frac{m_1 - m_2}{\sqrt{\frac{\sigma_1^2}{N_1} + \frac{\sigma_2^2}{N_2}}} \]

\( df = N_1 + N_2 - 2 \)

In this research the researcher will use the Descriptive survey method.