4. WORK PLAN AND METHODOLOGY

- First six month
  1) Literature survey
  2) Data Collection
  3) Provision of chemicals for preparation of samples.
  4) Weighing of ingredients
  5) Mixing and Milling of ingredients in their weight properties’
  6) Preparation of sample
  7) Pre-sintering and slow cooling.
  8) Milling of pre-sintered powder materials.
  9) Sintering and slow cooling.
  10) Milling and pellet formation of sintered powder materials.
  11) Final sintering of the samples
  12) Milling, powder, Grinding and polishing for the pellets.

- Second six month
  1) Characterization of powdered samples by X-ray diffraction technique and analysis for the calculation of various parameters’.
  2) Characterisation of powdered samples by infrared absorption technique and analysis.
  3) Scanning electron microscopic study of the fractured surface of pellet ferrite samples.
  4) Course work and theory papers.

- Third six month
  1) Electrical D.C. and A.C. conductivity properties of samples.
  2) Magnetic Hysteresis study, estimation of Curie temperature of the samples.
  3) Magnetic susceptibility study of the samples.
  4) Analysis of Result and conclusions.

- Fourth six months
  1) Writing of research papers and publication of research papers.
  2) Thesis Writing.
  3) Typing and binding of the research thesis.
  4) Submission of thesis.