PLAN OF WORK & RESEARCH METHODOLOGY

- **Literature Review**: Literature review for undertaking the study was done by referring various national and international journals, published articles in various official standard books and referring to various websites on the internet.

- **Collection and Identification of Plants**: At the end of extensive literature survey some medicinal plants were selected for the study. These plants were selected because of their traditional use as antiulcer and antidiabetic, as well as good natural calcium channel blockers.

- **Preparation of Extracts**:

- **Selection of Animals for the study**:

- **Blood sampling from the animals**: From different groups of animals blood samples will collect for liver function and kidney function test before and after the extract treatment.

- **Drugs use for the study**: Carbacol, Streptozotocin/Alloxon, Cimetidine, Verapamil, Normal saline, Extracts of Plants

- **Experimental Procedure for the study**: (Volume And Acidity Of Stimulated Gastric Secretion)
  
  The weight of all the animals will take before subjecting them to experimental procedure. The required concentration of all the drugs will prepare before use. The animals will broadly divide in to different groups as below

  Group I – Control
  Group II- Standard
  Group III to X - Extract treated (Separate group for each extract)

  The operative procedure was the one adopted by Vischer et al. Animals were anaesthetized with ether, abdomen opened and pylorus was ligated with silk suture.

- **Experimental Procedure for the study**: (Diabetes related complications)
  
  The weight of all the animals will take before subjecting them to experimental procedure. The required concentration of all the drugs will prepare before use. Diabetes will induce by using Streptozotocin /alloxone. After induction of diabetes animals will divide in to following groups

  Group I – Control
  Group II- Standard
  Group III to X - Extract treated (Separate group for each extract)
• **Estimation of Kidney functions:**
  This includes effect of plants extract on Kidney function like Blood urea nitrogen, Serum creatinine, Bilirubin Proteins etc.

• **Estimation of Liver Functions:** SGOT, SGPT, Bilirubin, Creatinine

• **Antioxidant activity of extracts:**