WORK PLAN AND METHODOLOGY

1. Review of Literature related to phytochemical profile, pharmacological profile of *Albizzia Lebbeck*.

2. Collection and Authentication of bark and leaf of *Albizzia Lebbeck*.

3. Preservation and Powdering of bark and leaf of *Albizzia Lebbeck*.

4. Pharmacognostical studies.
   a) Macroscopical evaluation.
   b) Microscopical evaluation.
   c) Analytical parameters.
      ➢ Ash value
      ➢ Extractive value.
      ➢ Foaming index
      ➢ Loss on Drying

5. Preparation of the various extracts (petroleum ether extract, chloroform extract, methanolic extract and aqueous extract) of bark and leaf of *Albizzia Lebbeck*.

6. Qualitatively analyze the various extracts of *Albizzia Lebbeck* for the presence of phytoconstituents.

7. Quantitative determination of various extracts of *Albizzia Lebbeck*.

8. Isolation of phytoconstituents from extract of bark and leaf of *Albizzia Lebbeck*.

9. Evaluation of toxicity Studies of isolated phytoconstituents of bark and leaf of *Albizzia Lebbeck*.

10. Evaluation of *in-vitro* Antioxidant activity of isolated phytoconstituents of bark and leaf of *Albizzia Lebbeck*.

11. Evaluation of various *in-vivo* pharmacological activities of isolated phytoconstituents of bark and leaf of *Albizzia Lebbeck*. 