RESEARCH METHODOLOGY

Experimental method will be used for the research purpose. Soil samples will be collected from different fields and nurseries. Chemical wastes and plant wastes from the laboratory will be collected as solid and liquid wastes and segregation will be done. Different sets of pot will be made with different combinations of soil with solid and liquid waste for each plant. One pot will be taken as control for the comparative study of plant growth. Seeds, small saplings of plants, bulbs will be used for growing the plants. Pots will be watered daily at definite interval of time.

Observations will be made every fifteen days for morphological study of the plants by noting down the number of leaves, color of leaves, height of plants, number of flowers per week, size and color of the flowers and light intensity absorbed by plants.

Soil analysis will be done to find out the ions present in different soil which is going to effect on plants growth differently. Other parameters for soil observation such as soil texture, soil pH, soil color, soil temperature, moisture content of the soil, porosity of soil, water holding capacity of soil, viscosity of soil will be taken into consideration.

5 to 7 sets will be made for each plant for doing the comparative study of plants growth with respect to the ions and minerals present in the soil samples. 3-way pH meter will be used for the observation of pH of soil, thermometer for measuring temperature of soil, viscometer, specific gravity bottle and other spectrometric instruments will be used for spectrum analysis of plants.

WORK PLAN
First Year

1. Completion of course work.
2. Review of literature.
3. Find out the research problem and title of the research.
4. Finding of objectives, hypothesis and research methodology.

Second Year

1. Presentation of synopsis.
2. Review of literature related to research topic.
3. Pilot research.
4. Presentation and publication of research papers in reputed national and international journals.

Third Year

1. Finalization of thesis.
2. Plagiarism checking.
4. Binding of thesis and submission in the university.