

BSP507 PLANT PHYSIOLOGY LAB

Course Outcomes:

After successful completion of the course, students will be able to:

- CO 1. Realize the importance each nutrient in plant growth through experimentation and observation.
- CO 2. Observe mineral deficiency symptoms in plants.
- CO 3. Know how to perform the tests for understanding water relations.
- CO 4. Understand the photosynthesis by conducting some allied experiments.
- CO 5. Understand the role of growth hormones in plants.

1. Plant nutrition-

Observation of mineral deficiency symptoms in plants.

2. Water relations-

Experiments to demonstrate the diffusion pressure deficit in plant cell.

2.2 Determination of stomatal index, stomatal frequency and measurement of Stomatal aperture.

2.3 Determination of water potential

3. Photosynthesis -

Separation and estimation of chloroplast pigments.

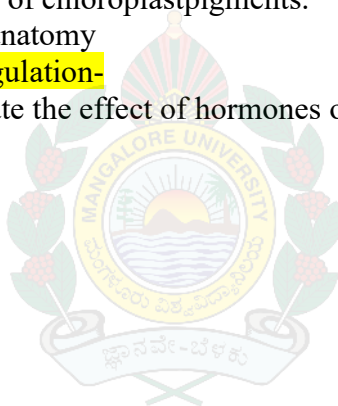
Demonstration of Kranz anatomy

4. Growth hormones and their regulation-

Experiments to demonstrate the effect of hormones on shoot apex.

5. Plant pathology

Pathogens in crop plants



MANGALORE UNIVERSITY
DEPARTMENT OF BIOSCIENCES

MSc Projects on

1. Bioactive potential of foliage of coastal *Canavalia* spp.
2. Bioactive potential of *Xylaria* spp.
3. Studies on palynology and quality of honey of the Western Ghats and West Coast of Karnataka
4. Qualitative and quantitative analysis of phytochemicals in *Lantana* leaves
5. Comparative evaluation of water-absorbing capacity and rate of transpiration in plants
6. Physico-chemical parameters and diversity of microbes in different water samples
7. Screening of phytochemical and bioactive compounds from *Terminalia catechu*
8. Isolation and identification of endophytic fungi from selected medicinal plants
9. A study of important medicinal plants
10. Effect of detergents on seed germination and plant growth

