

## ALLIED BOTANY PRACTICAL

Semester	Subject code	Category	Practical		Theory	Practical	Credit
			Hrs/ Week	Total Hours/ Semester			
IV	21CA BO41	Allied Practical	3	45	Nil	45	2

### OBJECTIVES:

- To describe in Technical terms, plant belong to any of the families.
- To dissect a flower, construct floral diagram and write floral formula.
- To describe simple experimental setup in plant physiology.
- To describe and identify the Micropreparation materials of Pteridophyte, Gymnosperms, Embryology, Histology and Angiosperms.

### Thallophyta

Nostoc colony, chlorella cell, Penicillium WM, Sargassum Habit , Axis TS, Leaf TS, Male conceptacle, Female conceptacle, Albugo Candida, Agaricus Basidiocarp, Agaricus gill TS. Funaria Habit, Stem TS, Root TS, Leaf TS, Antheridial head, Archegonial head, Capsule LS, TMV

### Cell Biology

Mitosis cell division-Prophase, Metaphase, Anaphase and Telophase

### Anatomy

Dicot root , Monocot root, Dicot stem, Monocot stem, Normal secondary thickening in Dicot stem. Parenchyma, Collenchyma, Sclerenchyma, Xylem and phloem.

## **Taxonomy**

Annonaceae - Annona, Atrabotryx, Polyalthia

Asteraceae - Tridax, Sunflower

Apocynaceae- Catharanthus, Ervatamia

Euphorbiaceae- Euphorbia sps, E. hirta, Croton

Liliaceae- Onion, Asparagus

## **Embryology**

Mature anther, Different types of ovules, Dicot embryo

## **Medicinal plants**

Ocimum sanctum, Zingiber officinale, Solanum trilobatum, Curcuma longa, Azadirachta indica, Andrographis paniculata, Cassia auriculata, Catharanthus roseus, Phyllanthus amarus and Aloe vera.