

**B.Sc. Botany**  
**(Course Outcome)**

**B.Sc. First year**

**Paper I : Applied Botany**

- CO1: Understood the significance and role of botany
- CO2: Learnt the basic aspects of applied botany.
- CO3: Gained knowledge about employment opportunities in field of botany.
- CO4: Gained knowledge about start up opportunities in the field of botany.
- CO5: Learnt about opportunities of social services
- CO6: Gain knowledge about best health practices.

**Paper II : Basic Botany**

- CO1: This course will help the student to understand the diversity of plants and evolutionary process in plant kingdoms.
- CO2: It gives an accounts of plant adaptations from aquatic condition to colonize terrestrial habitat.
- CO3: The changes in morphological, anatomical and reproductive structures that propel plant evolution can be investigated.
- CO4: The economic importance and significance of plants in nature will be understood.
- CO5: They will be acquainted with locally prevalent microbial diseases of plants and humans.

**B.Sc. Second Year**

**Paper I : Plant Anatomy & Embryology**

- CO1: Students will learn the internal structure of plants. It will enhance the basic understanding of organization of plant body by cells and tissues.
- CO2: Students will understand the dynamic mechanism of plant pollination, fertilization and development.
- CO3: They will have hands on training on section cutting, preparation of slides, study of pollen and ovules.

**Paper II : Industrial Botany**

- CO1: This course will provide knowledge on plants and their parts used in various industries.
- CO2: Students will get an idea to establish plant based antural product industry.
- CO3: This course will make the students self- reliant.

**B.Sc. Third Year**

**Paper I : Plant Physiology & Biochemistry**

- CO1: To study the vital activities in plant and study of various metabolic activities in plants
- CO2: To know about absorption, translocation and utilization of water and other minerals
- CO3: To understand changes during growth process (germination to senescence)
- CO4: To understand various photosynthetic and respiratory cycles
- CO5: To gain knowledge on biomolecules
- CO6: To study the behavior of plants under various environmental conditions
- CO7: To provide in depth understanding on the various laws governing the physiology of plants.

CO8: To enhance the knowledge on physiology and biochemical aspects through series of experiments

**Paper II : Cell Biology, Genetics and Biotechnology**

CO1: Students will understand the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles

CO2: Students will understand how these cellular components are used to generate and utilize energy in cells

CO3: Students will understand the cellular components underlying mitotic cell division

CO4: To understand the basic unit of the organism.

CO5: To differentiate the organisms by its cell structure.

CO6: To know Components of the Cell and their division.

CO7: To explain the arrangement of Genes and their interaction.

CO8: To describe the influence of environment on gene expression.

CO9: To understand extra nuclear inheritance, linkage & crossing over

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