

**B.Sc. Botany**  
**Programme Outcomes (PO's)**

**PO1.** Understanding of Plant Diversity and its importance in the maintenance of ecological balance.

**PO2.** Students learn to carry out practical work, in the field and in the laboratory, interpreting plant morphology and anatomy, Plant identification, Vegetation analysis techniques.

**PO3.** Apply the knowledge of basic science, life sciences and fundamental processes of plants.

**PO4.** Apply modern techniques and instruments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological studies of plants with an understanding of the applications in human life.

**PO5.** Apply the knowledge gained from the studies for the upliftment of society via addressing health, environmental issues, food scarcity etc.

**Programme Specific Outcomes (PSO's)**

**PSO1.** Critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and at phylogenetic level.

**PSO2.** Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.

**PSO3.** Students will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.

**PSO4.** Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth.

**PSO5.** Students will be able to explain how plants function at gene, genome, cellular and tissue level,

**PSO6.** Students will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.

**PSO7.** Students will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries.