Course Outcome

At degree level the College offers Botany as Complementary Course to B. Sc Zoology

B. Sc Complementary Course in Botany

Course outcomes

A student after the completion of Botany as Complementary Course to B. Sc Zoology should be able to

CO1: *appreciate the scope and importance of Botany*

CO2: *identify without help various taxonomic groups of plants (at least higher taxa)*

CO3: *know the basic physiology, anatomy, morphology and hormonal control of plants and be able to apply these in horticulture, agriculture and crop improvement*

CO4: *develop interest and curiosity towards nature, ecosystems, diversity, and evolution from a botanical perspective*

CO5: *understand the value of natural resources and their importance in sustainable development*

CO6: *develop skills in laboratory techniques for future research and scientific studies and improvement of daily life*

Semester - I

Paper - 1. Angiosperm Anatomy and Micro technique

Course Code – BOTC01T

Objectives:-

- To identify the different tissue systems and their organization in a plant body
- To understand the anatomy of plant body, distribution of different tissues, their specialized functions and role in growth of the plants
- To be aware of the laboratory instruments and techniques used for preparation of plant material to study them for scientific purposes

Semester - II

Paper - 2. Cryptogams, Gymnosperms and Plant pathology

Course Code - BOTC02T

Objectives:-

- To obtain a general understanding of classification and identification of lower groups of plants such as Algae, Fungi, Bryophytes, Pteridophytes and Gymnosperms
- To study the general morphology, anatomy and life history of lower groups of plants
- To be aware of the different group of plant pathogens, their diagnostic symptoms, methods of spreading and control measures

Semester - III

Paper – 3. Morphology, Systematic Botany, Economic Botany, Plant Breeding and Horticulture

Course Code - BOTC03T

Objectives:-

- To understand the morphology of flowering plants
- To classify and identify flowering plants based on morphological characters
- To be aware of economically important plants and their useful parts
- To impart knowledge about horticulture and plant breeding techniques

Semester - IV

Paper – 4. Plant Physiology, plant ecology and Genetics

Course Code - BOTC04T

Objectives:-

- To understand basic physiological and metabolic process in the plants for absorption and transportation of water and mineral,
- To understand the process of photosynthesis, respiration and hormonal growth control of plants.
- To know the basic ideas of mendelian concepts of inheritance and variation in plants
- To appreciate the relationship of organisms and environment, their interactions among themselves and with nonliving surroundings