Course Outcomes (COs): Botany

B. Sc. Botany

Semester I

Morphology of Angiosperms

CO1: To introduce to basic structure of plants.

CO2: To describe morphological peculiarities of vegetative organs of angiosperms.

CO3:To describe morphological peculiarities of reproductive organs in angiosperms.

C04: To develop practical knowledge of Angiosperm plants.

Semester II

Diversity of cryptogams- I

C01: Introduction and classification about basic plant groups like Algae and Fungi.

C02: To equip the learners with all life science fundamental practical skills.

C03: To aware learners about the economic and medicinal value of cryptogams.
CO4: Identify common plant diseases and devise the suitable control measures.

Semester III

Diversity of Cryptogams-II

C01: To understand categories of plants with morphological features of Bryophytes and Pteridophytes.

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C02: To analyze the peculiar characteristic features of plant groups in relation with its internal characteristics.

C03: To aware learners about economic and medicinal value of cryptogrammic plants.

Plant Ecology

C01: Understanding of anatomical characterization of plants.

C02: Study of eco-friendly conservation and sustainable utilization.

CO3: Students cop up with the ecosystem mechanism, analyzing plants ecosystem.

CO4: Understanding of ecological adaptations.

Semester IV

Gymnosperms and Utilization of Plants

CO1; To make aware of economic and medicinal value of Gymnosperms and Angiosperms.

C02: To understand important terminology in industrially and economically important higher plant species.

Plant Physiology

C01: To understand plant physiology, life process, plant genetics and plant biotechnology.

C02: use the theoretical knowledge for advance study in plant sciences.

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Semester V

Cell and Moleculat Biology

CO1: To create innovative approaches to aware the students in basic terminology of plant cells.

C02: To understand cell at molecular level.

CO3: To apply theoretical understanding to the development of humankind.

Diversity of Angiosperms-I

CO1:To create awareness about the plant resources.

CO2: To classify plants on the basis of morphological aspects.

CO3: To participate in laboratory experiments for understanding the basic principles of life sciences and helpful for gaining primary information.

Semester VI

Genetics and Biotechnology

CO1: To study basic terms in Mendelian and non-Mendelian genetics.

CO2: To focus on biotechnological importance for improvement and satisfaction of all needs of human kind.

C03: To understand plant biotechnology and its application in agriculture, horticulture, medicinal and industrial crops.

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Diversity of Angiosperms-II

C01: To study eco-friendly conservation and sustainable utilization of plants.

C02: To understand flora.

CO3: Explain the classification systems and diagnostic features of selected families of angiosperms.

CO4: Identify, describe, and compare morphological and reproductive characters of representative plant families.

CO5: Interpret the taxonomic relationships and phylogenetic trends among various groups of flowering plants.

CO6: Apply botanical nomenclature rules and keys for the identification of unknown angiosperm specimens.

CO7: Evaluate the economic and ecological significance of plants from important angiosperm families.

CO8: Develop herbarium skills and prepare taxonomic descriptions of collected specimens.

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