

Department of Botany



Criterion 2.6.1 :Programme outcomes and Course outcomes

OUTCOME OF PROGRAMME

- To acquire the knowledge about plant groups from lower to higher.
- To establish awareness about conservation sustainable importance of plants and nature.
- To guide students for taking up a successful career in Botany.
- To apply in different industries.
- To equip the students with skills related to laboratory and field based studies.
- To provide knowledge on research purpose.

OUTCOME OF COURSE

Semester I

CC1: Phycology and Microbiology

- Understand the structure of algal cell and life cycle pattern.
- Describe the classification pattern.
- Learn about diversity of algae.
- Study the general concept on bacteria and virus.

CC2: Mycology and Plant Pathology

- Study the general account on fungi
- Classify the fungi (G.N.Ainsworth,1973)
- Study the life history of some sp of fungi.
- Study the salient feature and types of lichen and Mycorrhiza.
- To get acquaintance with different terms and definitions of plant pathology.
- Describe the some disease cycle and disease management and to identify some plant diseases.

SEMESTER II

CC 3: Plant anatomy

- Describe the ultrastructure and chemical constituents of plant cells.
- Study the secondary growth with anomalous growth of some species of plants.



CC4:Archaeogoniate

- Study the general account on Bryophyte.
- Describe the evolutionary transition of Bryophyte.

SEMESTER III

CC5: Paleobotany and Palynology

- Study the geological time scale with dominant plant groups through ages.
- Describe the types of plant fossil with description of fossil pteridophyte and Gymnoperm.
- Study the structure of pollen with basic concept of different applied in palynology.

CC:6 Reproductive biology and Angiosperm

- Study and identity the different morphological part of plant
- Study the fertilization and process, post fertilization process of plant.

CC:7 Plant systematics

- Study the nomenclature, Identification, classification of plant.
- Study the different family description for identification purpose.

Semester IV

CC:8 Plant geography, Ecology and Evolution

- Understand the plant communities and ecological adaptations in plants.
- Learn about conservation of biodiversity, Non-conventional Energy and Pollution.
- Discover botanical regions of India.
- Study the theories of evolution.
- Study the simplified phylogeny of bacteria, algae, fungi, bryophyte, pteridophyte and gymnosperm with phylogenetic tree.

CC:9 Economic Botany

- Describe the origin of cultivated crop.
- Describe of cultivation process of some economically important plants.

CC:10 Genetics

- Describe the Mendelian genetics and its extension.
- Study the gene mapping with three point test cross.
- Study chromosomal aberration, mutation.

Semester V



CC:11 Cell and Molecular Biology

- Describe the origin and evolution of cells.
- Study the structure of nucleus and chromatin ultrastructure.
- Study the DNA replication, transcription and translation with gene regulation.

CC:12 Biochemistry

- Understand the different types of chemical bond.
- Understand the structure of nucleic acid protein, Carbohydrate, lipid and fatty acids.
- Study the description ultra structure of cell membrane.

SEMESTER VI

CC13 Plant Physiology

- Study the plant –water relations.
- Study the role of plant growth regulators.
- Study the photomorphogenesis and seed dormancy and Senescence and aging.

CC14 Plant Metabolism

- Understand the physiological details of photosynthesis and respiration .
- Understand the lipid metabolism and Nitrogen metabolism.

DSE-A Medicinal Botany and Ethnobotany

- Study the importance and history of medicinal botany
- Describe the general concept on pharmacognosy.
- Study the secondary metabolites with their active constituents.
- Study the ethnobotany and folk medicine.

DSE-B Natural resource management

- Study the Natural resources

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