#### **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 eshtablish 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 basedstudies.
- 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 identity 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:Archaegoniate

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

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#### 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 systamatics**

- 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 inplants.
- 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,pteriophyte and gymnosperm with phytogenetic tree.

# **CC:9 Economic Botany**

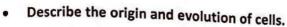
- Describe the origin of cultivated crop.
- Describe of cultivation process of some economically important plane.

### CC:10 Genetics

- Describe the Medenlian 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



- 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 Senesence and aging.

# CC14 Plant Metabolism

- Understand thephysiological 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 constitutes.
- Study the ethnobotany and folk medicine.

# **DSE-B Natural resource management**

Study the Natural resources

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