

## **BSC BOTANY**

### **PROGRAMME OUTCOME**

1. It will encourage the students towards critical thinking.
2. It will help to understand the scope and importance of Botany in every field especially in dealing with societal and environmental issues
3. It will develop scientific temper
4. They will be able to apply techniques like plant propagation methods, organic farming preparation of biofertilizers', Mushroom cultivation.
5. It will create awareness on the life processes especially plant life, biomolecules, basic hereditary and evolutionary processes.

### **COURSE OUTCOME**

#### **BSc I sem**

- Develop understanding about the classification and diversity of microbes.
- Develop conceptual skill about identifying microbes, Pathogens, lichens and biofertilizers.
- Gain Knowledge about the use of microbes in various fields in commercial enterprise.
- Develop critical understanding, morphology anatomy and reproduction of bryophytes.

#### **BSc II sem**

- Develop critical understanding on morphology, anatomy and reproduction of Pteridophytes, Gymnosperms and Angiosperms.
- Understanding of plant evolution and their transition to land habitat.
- To learn the major patterns of diversity among plants, and the characters and types of data used to classify plants
- To compare the different approaches to classification with regard to the analysis of data.
- To discover and use diverse taxonomic resources, references materials, herbarium collections, publications

#### **BSc III sem**

- Understand morphology and anatomy.
- Understand role of tissues in plant functions.
- Understand the composition, modifications, Internal structure & architecture of plants.

#### **BSc IV sem**

- Understand reproduction and developmental changes in plants.
- Understand structure and chemical composition of chromatin and concept of cell division.
- Interpret the Mendel's principles; acquire knowledge on cytoplasmic inheritance and sex-linked inheritance.

#### **BSc V sem**

- Understand cell structure, nucleic acids, organization of DNA in prokaryotes and Eukaryotes, DNA replication mechanism, genetic code and transcription process.
- Know about processing and modification of RNA and translation process, function and regulation of expression.
- Understand the basic tools and techniques used in Plant tissue culture.

### **BSc VI sem**

- Understand the role of physiological and metabolic processes for plant growth and development.
- Learn the symptoms of mineral deficiency in crops and their management.
- Assimilate knowledge about Biochemical constitution of plant diversity.

### **BSc II year**

1. Differentiate tissues and their functions
2. Explain various developmental details of angiosperms.
3. To spread the awareness of the need of conservation of biodiversity and natural resources.
4. Develop environmental concern in all their action and practice Reduce, Reuse and Recycle.

### **BSc III year**

1. Identifying the physiological responses of plant and explain the metabolic process taking place in the cell.
2. Understand various techniques employed for increasing crop productivity.
3. Understanding importance of biotechnology in daily life
4. Understand the basic process of inheritance.

Department incharge

Principal