

## **Program Specific Outcomes (PSOs)**

### **MAJOR DISCIPLINE SPECIFIC CORE COURSE:**

**PROGRAMME CODE: SCIUG103**

**SEM- II: SC23MJDSCBOT201: BIOMOLECULES AND CELL BIOLOGY**

#### **Programme specific Learning Outcomes:**

On completion of the course, the students will be able to:

- Develop understanding on chemical bonding among molecules.
- Identify the concept that explains chemical composition and structure of cell wall and membrane.
- Classify the enzymes and explain mechanism of action and structure.
- Compare the structure and function of cells & explain the development of cells.
- Describe the relationship between the structure and function of biomolecules.

### **MINOR DISCIPLINE SPECIFIC CORE COURSE:**

**PROGRAMME CODE: SCIUG103**

**SEM- II: SC23MiDSCBOT202: ORGANIC MOLECULES AND CYTOLOGY**

#### **Programme specific Learning Outcomes:**

On completion of the course, the students will be able to:

- Develop understanding on chemical bonding among molecules.
- Identify the concept that explains chemical composition and structure of plant.
- Classify the enzymes and explain mechanism of action and structure.
- Describe the relationship between the structure and function of biomolecules

### ***MULTI/INTER DISCIPLINARY COURSE:***

***PROGRAMME CODE: SCIUG103***

***SEM- II: SC23MDSCBOT203: FRUITS AND VEGETABLE PROCESSING***

#### ***Programme specific Learning Outcomes:***

On completion of the course, the students will be able to:

- Understand the different classifications of horticultural crops, nursery management, and use of technology in horticulture.
- Develop their competency on pre and post-harvest technology in horticultural crops.
- Analyze the different methods of weed control and harvest treatments of horticultural crops
- Examine the economic implications of cultivation of tropical and sub-tropical vegetable crops
- Evaluate the importance of floriculture and contribution spices and condiments on economy.

**SKILL ENHANCEMENT COURSE:**

**PROGRAMME CODE: SCIUG103**

**SC23SECBOT206: NATURAL RESOURCE MANAGEMENT**

**Programme specific Learning Outcomes:**

On completion of the course, the students will be able to:

- Understand the concept of different natural resources and their utilization.
- Critically analyze the sustainable utilization land, water, forest and energy resources.
- Evaluate the management strategies of different natural resources.
- Reflect upon the different national and international efforts in resource management and their conservation.

**SEMESTER II**

**2023-2024**

**Course Outcomes (COs)**

**MAJOR DISCIPLINE SPECIFIC CORE COURSE 1-THEORY (MJDSC)**

**PROGRAMME CODE: SCIUG103**

**Course outcomes**

After the completion of the course the students will be able to:

- 1) To help the students to gain knowledge on the activities in which the giant molecules and miniscule structures that inhabit the cellular world of life are engaged.
- 2) This will provide inside into the organization of cell, its features and regulation at different levels.
- 3) Through the study of biomolecules and cell organelles, they will be able to understand the various metabolic processes such as respiration, photosynthesis etc. which are important for life.

**Pedagogy:** Lectures, Tutorials, Assignments, Demonstrations, Videos, Team based learning

**MAJOR DISCIPLINE SPECIFIC CORE COURSE 1-PRACTICAL (PMJDSC)**

**PROGRAMME CODE: SCIUG103**

After the completion of the course the students will be able to:

- 1) To help the students to gain knowledge on the activities in which the giant molecules and miniscule structures that inhabit the cellular world of life are engaged.
- 2) This will provide inside into the organization of cell, its features and regulation at different levels.
- 3) Through the study of biomolecules and cell organelles, they will be able to understand the various metabolic processes such as respiration, photosynthesis etc. which are important for life.

**Pedagogy:** Lectures, Tutorials, Assignments, Demonstrations, Videos, Team based learning.

## **MINOR DISCIPLINE SPECIFIC CORE COURSE 1-THEORY (MiDSC) PROGRAMME CODE: SCIUG103**

After the completion of the course the students will be able to:

- 1) To help the students to gain knowledge on the activities in which the giant molecules and miniscule structures that inhabit the cellular world of life are engaged.
- 2) This will provide inside into the organization of cell, its features and regulation at different levels.
- 3) Through the study of biomolecules and cell organelles, they will be able to understand the various metabolic processes such as respiration, photosynthesis etc. which are important for life.

**Pedagogy:** Lectures, Tutorials, Assignments, Demonstrations, Videos, Team based learning.

## **MINOR DISCIPLINE SPECIFIC CORE COURSE 1-PRACTICAL (MiDSC) PROGRAMME CODE: SCIUG103**

After the completion of the course the students will be able to:

- 1) To help the students to gain knowledge on the activities in which the giant molecules and miniscule structures that inhabit the cellular world of life are engaged.
- 2) This will provide inside into the organization of cell, its features and regulation at different levels.
- 3) Through the study of biomolecules and cell organelles, they will be able to understand the various metabolic processes such as respiration, photosynthesis etc. which are important for life.

**Pedagogy:** Lectures, Practicals, Tutorials, Assignments, Demonstrations, Videos, Team based learning.

## **SKILL ENHANCEMENT COURSE-(THEORY)(SEC) PROGRAMME CODE: SCIUG103**

After the completion of the course the students will be able:

1. Understand the importance, benefits and services of biodiversity.
2. To learn the strategies for the conservation of biodiversity.
3. This knowledge is critical in evolving strategies for sustainable natural resource management and biodiversity conservation.

**Pedagogy:** Lectures, Practicals, Assignment, Presentations, Field visit.