## PROGRAM OUTCOMES (PO):

### PO1: PO 1 Gain Domain Expertise:

1. The diversity of lower group of plants and their importance.
2. The higher plant groups: the developmental process, morphology, identification, classification and nomenclature
3. The importance of plants in ecology and human health
4. The basics of heredity and inheritance
5. The physiology and biochemistry of the plants
6. The importance of biofertilizers and the methods of organic farming
7. Statistics and computer as applied to biological data
8. The methods of horticulture and plant breeding techniques
9. The techniques employed in biotechnology: plant tissue culture and genetic engineering
10. The importance of ethnobotany and measures of protection

### PO2: Gain Life-long Learning and Research:

1. Identification and classification of plants and microbes
2. Analysis of plant morphology, anatomy, embryology and cellular structure and processes
3. Collection of plant specimens and preparation of herbarium
4. Ecology and vegetation analysis techniques.
5. Biochemical analyses of physiological reactions.
6. Biological data analysis using appropriate statistical methods and computer softwares.

7. Preparation of chemicals at desired composition and concentration, sterilization of plants and other materials in the context of plant tissue culture and biotechnology
8. Isolation, culture, cultivation and preparation of biofertilizers

**PO3: Gain Modern equipment Usage:**

1. Understanding the importance of plants in every aspects of life such as medicines, food, and other economical plant products.
2. Awareness on environmental issues and the consequent responsibilities relevant to biodiversity conservation and sustainable development.
3. Understand the evolving state of knowledge in a rapidly developing field.
4. Use of modern tools and techniques for biological analysis and understanding the advantages and limitations
5. Apply the acquired scientific knowledge to study and analyze any problem and developing a solution or valid conclusion
6. Effective communication and presentation of scientific ideas in writing and oral.
7. Ability to work as part of a team.
8. Create platform for higher studies and research in botany and other career opportunities.

**PO 4 Gain Computing Skills and Ethics**

1. Develop rationale and scientific thinking process.
2. Use technology intelligently for communication, entertainment and for the benefit of mankind.

3. Ensure ethical practices throughout ones endeavors for the well being of human race.

**PO 5 Complex problem Investigation & Solving**

1. Predict and analyze problems.
2. Frame hypotheses.
3. Investigate and interpret empirical data.
4. Plan and execute action

**PO 6 Perform effectively as Individuals and in Teams**

1. Work efficiently as an individual
2. Cooperate, coordinate and perform effectively in diverse teams/groups.
3. Prioritize common interest to individual interest.

**PO 7 Efficient Communication & Life Skills**

1. Express thoughts in an effective manner
2. Listen, understand and project views in a convincing manner.
3. Decide appropriate media to share information
4. Develop skills to present significant information clearly and concisely to interested groups.

**PO 8 Environmental Sustainability**

1. Understand sensibly the Environmental challenges.
2. Think critically on environment sustainability measures.
3. Propagate and follow environment friendly practices.

**PO 9 Societal contribution**

1. Render service for the general good of the society.

2. Involve voluntarily in social development activities at Regional, National, global levels.
3. Have own pride in volunteering to address societal issues viz: calamities, disasters, poverty, epidemics.
4. Be a patriotic citizen to uphold the values of the nation

**PO 10 Effective Project Management**

1. Identify the goals, objectives and components of a project and decide the appropriate time of completion.
2. Plan, organize and direct the endeavors of teams to achieve the set targets in time.
3. Be competent in identifying opportunities and develop strategies for contingencies.