

## **DEPARTMENT OF BOTANY**

### **B.Sc Botany**

#### **Program Outcomes**

Bachelors of Science is a three-year programme which enables the students to know about the biodiversity, structure, reproduction, functioning, economic importance, ecological behavior and genetics of various groups of plants. Students are trained and encouraged for higher studies in the subject.

#### **Program Specific Outcomes**

- Students will be able to understand diversity among lower to higher plants and they will be able to give specific examples of physiological functioning, development, reproduction and mode of life cycle of different form of plants.
- Students will be proficient to comprehend classification, morphology, anatomy and physiology of various groups of plants.
- Students will be able to understand the contribution of botany for human welfare with potential uses of plants and there conservation and sustainable development.
- Students will be able to understand and relate physical features of environment to the structure of population, communities and ecosystem.
- Students are skilled to apply the knowledge of fundamental processes of plants to study and analyze any plant form at genetic and biochemical level.
- Students can potentially use experimental techniques and methods of investigation in various fields of basic and applied sciences.
- Students will be enhanced by various skills related to gardening and floriculture, biofertilizers, mushroom cultivation, and ethnobotany.

### COURSE OUTCOME

S.No	Subject Code	Subject Name	Subject Category	
<b>Year I<sup>st</sup></b>				
1.	BOTA 101	Biodiversity (Microbes, Algae, Fungi and Archegoniates)	DSC-IA	Students will have vast knowledge about morphology anatomy and life cycles of each and every plant group and their potential uses.
2.	BOTA 102	Plant Ecology and Taxonomy	DSC-IB	The course emphasizes upon the identification and classification of plants besides their relationships with physical and the biotic environment and their conservation. Students will also become aware about the ecosystems and flow of energy in the universe.
<b>Year II<sup>nd</sup></b>				
3.	BOTA 201	Plant Anatomy and Embryology	DSC-IA	Students are acquainted with detailed internal and external structures of various plants parts. It also highlights the reproductive development of plants.
4.	BOTA 202	Plant Physiology and Metabolism	DSC- IB	To aware students about internal activities of plants and their chemical and physical processes. Students also learn about growth and development patterns.
5.	BOTA 203	Biofertilizers	SEC	To familiarize students with the microbes used as biofertilizers for various crop plants and their advantages over chemical fertilizers.
6.	BOTA 204	Gardening and Floriculture	SEC	Course exposes the students with the concepts of gardening and landscaping operations along with identification, propagation, cultivation, management and harvesting of ornamental plants.

Year III <sup>rd</sup>				
7.	BOTA 301	Economic Botany and Biotechnology	DSE	Course familiarize students with the various varieties and cultivation practices of plants used by humans for food, fibre, beverages and medicine. Secondly it emphasize on the modern techniques and applications of plant sciences.
8.	BOTA 303	Cell and Molecular Biology	DSE	Course equipped students with basic knowledge of the structural and functional properties of cell and its components at structural and molecular level.
9.	BOTA 306	Medicinal Botany and Ethnobotany	SEC	Students are introduced with the history, concepts and future perspectives of human-plant relationship especially the plants used by tribal, their conservation and role in modern medicine.
10	BOTA 307	Mushroom Cultivation Technology	SEC	Students are acquainted with history, nutritive, medicinal values and cultivation practices of edible mushrooms.

