

## **Botany programme OUTCOMES**

### **1. Specific core discipline knowledge**

Students can recall details and information about the evolution, anatomy, morphology, systematics, genetics, physiology, ecology, and conservation of plants and all other forms of life.

Students can recall details of the unique ecological and evolutionary features of the local and Indian flora.

### **2. Communication skills**

Students can communicate effectively using oral and written communication skills

### **3. Problem solving and research skills :**

Students can generate and test hypotheses, make observations, collect data, analyze and interpret results, derive conclusions, and evaluate their significance within a broad

## **BSc BOTANY: PROGRAM SPECIFIC OUTCOMES**

- To recognize and identify major groups of non-vascular and vascular plants and their phylogenetic relationships.
- To understand the phylogeny of plants and study various systems of classification.
- To explore the morphological, anatomical, embryological details as well as economic importance of algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.

- To understand physiological processes and adaptations of plants.
  - To provide knowledge about environmental factors and natural resources and their importance in sustainable development.
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- To be able to carry out phytochemical analysis of plant extracts and application of the isolated compounds for treatment of diseases.
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- To be able to deal with all microbes and the technologies for their effective uses in industry and mitigation of environmental concerns.
  - To explain how current medicinal practices are often based on indigenous plant knowledge and to get introduced to different perspectives on treating ailments according to ethnomedicinal principles.
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- To understand patterns of heredity and variation among individuals, species and populations and apply principles for improvement of quality and yield.
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- To be able to apply statistical tools to gain insights into significantly different data from different sources.
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- To acquire recently published knowledge in molecular biology, such as rDNA technology; PCR and bioinformatics and their applications.