

## **Master of Science (M.Sc.) Botany**

### **Course Outcomes:**

- CO<sub>1</sub>: Critical evaluation of ideas and arguments by collection of relevant information about the plants, so as to recognize the position of plant in the natural classification and phylogenetic classification level.
- CO<sub>2</sub>: Accurate interpretation of collected information regarding the morphological and molecular characters which is broadly used to reorganize plant classification.
- CO<sub>3</sub>: Students will be able to apply the scientific method to questions in botany by formulating testable hypotheses, collecting data that address these hypotheses, and analyzing those data to assess the degree to which their scientific work supports their hypotheses.
- CO<sub>4</sub>: Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They will be able to use specific examples to explicate how descent with modification has shaped plant morphology, physiology, and life history.
- CO<sub>5</sub>: Students will be able to explain how Plants function at the level of the gene, genome, cell, tissue, Flower development. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and mode of life cycle followed by different forms of plants.
- CO<sub>6</sub>: Students will be able to explain the ecological interconnections of life on earth by tracing energy and nutrient flow through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.