



PROGRAM SPECIFIC OUTCOME (PSO)

B. Sc. (HONS.) in BOTANY

Plants play an important role in our life. From climate change to meeting the daily needs of our life is all plants. The unique capability of plants to trap solar energy and provide food to all cannot be replicated by any system. Conventional studies like plant, microbes identification is now having a new application in terms of bioprospecting. The courses have been designed to benefit all botany students to study various aspects of plant science including its practical applications. The course is to produce competent plant biologists who can employ and implement their gained knowledge in basic and applied aspects that will profoundly influence the prevailing paradigm of agriculture, industry, healthcare and environment to provide sustainable development.

❖ **PSO-1: Introduction to Plants, Microbes & Environments:**

This program offers the students a platform for introduction to the vast arena of plant Science. Concept develop about Phycology & Microbiology, Biomolecules & Cell Biology, Morphology & Anatomy of Angiosperms, Mycology & Plant Pathology, Molecular Biology, Reproductive Biology, Plant Metabolism, Natural Resource Management, Plant Breeding, Genetics, and Taxonomy.

❖ **PSO-2: Analytical thinking & Instrumentation:**

Students develop a practical knowledge on the different domains of plant science. They are acquainted with good laboratory practices and safety measures which helps them to develop the spirit of analytical thinking.

❖ **PSO-3: Concatenation of ideas:**

Students accumulate a deep knowledge for the concatenation of bio statistics, bio informatics and computer science and understanding the advanced areas of those subjects.

❖ **PSO-4: Confidence building ,exploration & environmental sustainability:**

Educational tours help to expand their knowledge about the local flora and flora of phytogeographic regions of the state in their natural habitat. Field studies also help them to know about the evolutionary stages of past and present-day flora including Community study develop awareness on rural and urban biodiversity and environment and environmental issues.

Throughout this program, critical thinking and self- directed learning aptitude to study the subjects in its depth and apply thoughts for solving the problems in various field grow up independently among the learners.



❖ **PSO-5: Innovative skill development & Research**

Capability of thinking about advances in various fields of biological sciences may help the students to raise or frame appropriate questions on related fields.

Basic concept of research and handling common practices and equipments in biological laboratory. Process of Reporting, Presentation and Publication of the scientific outcomes and to grow knowledge about Research Ethics.

❖ **PSO-6: Employment and Career:**

Students got motivation for higher studies, research or administrative jobs. The present course helps them to prepare for competitive exams in the country and also for abroad to pursue higher studies. They develop individual and leadership qualities to work in a team and management skills to qualify and take biological sciences as career as well as also entrepreneurs, etc.

Skill Enhancement Courses and Discipline Specific Elective papers open up new avenues and job opportunities for the students.

❖ **PSO-7: life-long learning:**

Enjoy learning in every situation, with the vision of humanity to a great extent.

❖ **PSO-8: Honesty, integrity and ethics:**

Recognize different values and systems and respect them. In decision making moral values should be given prime importance.