

DEPARTMENT OF PLANT SCIENCE

PROGRAM NAME:

M.Sc and Ph.D. Plant Science (Botany)

PROGRAM SPECIFIC OUTCOMES (PSOs)

Plant Science is the broad discipline confined to various subjects involved with the study of plants. The curriculum framework of M.Sc. and Ph.D. Plant Science (Botany) is designed to provide students with complete knowledge of subject domain and technical skills related to plants in an integrated manner. This program aims to educate the students in all the possible areas of plant sciences with a unique combination of major and elective papers with notable interdisciplinary components.

The students completed post graduation and doctorate with the Degree M.Sc and Ph.D. Plant Science (Botany) will be able to acquire core competency in the subject Botany and in allied subject areas.

1. The students will be able to recognize and characterize major groups of plants such as algae, fungi, angiosperms and gymnosperms upto genus level.
2. The students will be able to inter-relate various plant processes and functions, ecology, and environment, bioenergetics of metabolism, genetics, breeding and molecular biology of various plant domains.
3. The students will become competent enough in various analytical and technical methods related to plant sciences.
4. Students will be able to develop skills and expertise viz. plant tissue culture, phytochemistry, omics and protected cultivation, involving the uses of plants in ways that benefit mankind.
5. The students completing post graduate course are competent enough to perform research projects (Dissertation) using various tools and techniques in plant sciences and develop scientific temper and research attitude.

Students are made aware about the usage of bioinformatics tools and databases and the application of statistics to plant research. The program focuses on overall development of the students to face the competitive world. The syllabus of all courses in the programme has been designed in such a way that the students can prepare for national level competitive examinations like CSIR-NET (JRF), SET etc. and also able to explore the opportunities in the area of teaching and research.