

**J.J. COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)
PG AND RESEARCH DEPARTMENT OF BOTANY
PROGRAMME SPECIFIC OUTCOMES (PSO)**

On successful completion of the B.Sc. Botany program, the students are expected to

- PSO1 Implement the concept of science and technology to foster the traditional and modern techniques for solving the complex problems in Plant Biology.
- PSO2 Ensure the use of contemporary tools and techniques in understanding the scope and significance of Botany
- PSO3 Develop the scientific problem solving skills during experimentation, research projects, analysis and interpretation of data
- PSO4 Design scientific experiments independently and to generate useful information to address various issues in Botany.
- PSO5 Enhanced capacity to think critically; ability to design and execute experiments independently and/or team under multidisciplinary settings
- PSO6 Design and standardize protocols for public health and safety, and cultural, societal, and environmental considerations
- PSO7 Apply appropriate techniques, resources, and modern ICT tools for understanding plant resources.
- PSO8 Demonstrate the contextual knowledge in sustainable exploitation of medicinal, economically important and endangered plants as per the National Biodiversity Act.
- PSO9 Follow the concept of professional ethics and bioethics norms for practicing the value of plant kingdom.
- PSO10 Communicate proficiently with various stakeholders and society, to comprehend and to write and present reports effectively


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On successful completion of the M.Sc. Botany program, the students are expected to

- PSO1 Familiarize with the fundamental, advanced and emerging concepts in Botany.
- PSO2 Understand the role of plants and their interactions with other organisms in various ecosystems.
- PSO3 Identify the potency of plant resources in contemporary research and visualize future thrust areas in Botany.
- PSO4 Design scientific experiments independently and to generate useful information to address various issues in Botany.
- PSO5 Acquire basic knowledge on principles and applications of laboratory instruments and adequate skills to handle them.
- PSO6 Choose and apply appropriate tools, techniques, resources, etc. to perform various experiments in Botany.
- PSO7 Carry out scientific experiments independently or in collaboration with inter-disciplinary or multidisciplinary approaches.
- PSO8 Disseminate knowledge on conservation of biodiversity and protection of environment.
- PSO9 Awareness on the sustainable utilization of plant/microbial resources following the bioethical norms.
- PSO10 Demonstrate proficiency in communicating with various stakeholders like students, teachers, scientists and society.


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