



Government Science College, Gandhinagar
Program Specific Outcomes (PSOs)
of
B.Sc. Botany



After completing the graduation in B.Sc. Botany the students develop following abilities.

PSO1. Students completing the course will be able to develop a conceptual understanding of principles and importance of Botany, Understand different branches of Botany such as Systematics, Anatomy, Evolution, Ecology, Developmental biology, Physiology, Biochemistry, Embryology, Plant pathology, Morphology, Genetics, Molecular biology and Plant biotechnology.

PSO2. Understand the contribution of botany for human welfare (Ethnobotany) with potential uses of plants and their conservation and sustainable development.

PSO3: Students will be able to develop Laboratory skills to learn and to carry out practical work in the field and in the laboratory related to illustrating plant identification and collection, Plant morphology and anatomy, Plant vegetation and analysis techniques, Ecology, Physiological experiment, Embryological study, Techniques of Plant tissue culture, Microbiology, Biochemistry, Genetics and Molecular biology, Statistical methods, Documentation of field visits, visits to gardens and nurseries.

PSO4. Understand the nature and basic concept of Diversity of lower and higher plants, able to identify various life forms of plants, design and execute experiments related to basic studies on evolution, ecology and developmental biology.

PSO5. Students will be able to develop various skills related to Gardening and Floriculture, Organic farming, Bio fertilizers, Horticulture, Mushroom cultivation, Landscaping, Garden design and Nursery management by Preparing Garden Report and Nursery Report.

PSO6. Students will be able to learn about natural resources, the effects of plant diversity in social and environmental contexts, and the necessity of sustainable development in relation to the evaluation, preservation, and use of Biodiversity.

PSO7. Perform short research projects using various tools and techniques in plant sciences and develop scientific temperament and research attitude and Students will be increasing skill development in relation to research, teamwork, and critical thinking through Project Work.

PSO8: Students will be able to get awareness of nature and Environment by Botanical Excursion Tour (Educational Tour).

PO9: Students will be able to develop scientific communication skill which will helpful in proficiency in both written and oral scientific communication, particularly in conveying the essential ideas of the field in an understandable and straightforward manner.