SPC Government College

Beawer Road, Ajmer-305001

Program Outcomes of Botany

Programme Outcomes: Botany

The M.Sc. - Botany curriculum is designed to balance the traditional botany and upcoming modern applied approach and to equip students with subject domain knowledge and technical skills pertaining to the plant-world in a holistic manner.

It aims to train the students in all the aspects of plant sciences with a unique combination of core and elective papers with significant interdisciplinary components.

Students have exposure to the contemporary technologies that are currently used in the subject. They are made aware about the basic principles underlying the environmental issues, significance of plants and their relevance to the national economy.

Course Outcomes (COs):

PSO1:-

A student completing the course is able to understand the diversity prevailing in the members of the lower plant groups (Cryptogams) and identify them in nature. An understanding of the basic physiological phenomenon and the cytology and molecular biology involved therein is also induced.

PSO2:-

The knowledge of the plants is enhanced by exposing the students to the phanerogams with special reference to the taxonomic aspects. They become competent enough to apply the knowledge on genetic and molecular level and have an understanding of the overall growth phenomenon in the higher plants.

PSO3:-

The student completing the course is able to have an all-encompassing understanding of the various aspects of the plant growth and development processes: *in vivo* and *in vitro*; along with the principles underlying ecology and environmental sciences.

Apart from this the student is exposed to in depth knowledge of the field of his choice (Plant-pathology, Plant-physiology or Plant- ecology), via the elective paper offered.

In the process the student is also exposed to various analytical and technical skills related to plant sciences.

PSO4:-

The student completing the course is capable of working on the functional aspects of various cellular processes of plants, molecular genetics and modern tools i.e. tissue culture, genetic engineering performing short research projects using various tools and techniques in plant sciences and developing scientific temperament and research attitude in the core as well as elective papers.

The curriculum framework focuses on pragmatist approach whereby practical application of theoretical concepts is taught with substantial coverage of practical and field works.