

Progressive Education Society's
Modern College of Arts, Science and Commerce (Autonomous),
 Shivajinagar, Pune – 411005

Department of Botany

Program Specific Outcomes (PSOs) and Course Outcomes (COs)

Programme: B. Sc. Botany

After successful completion of B.Sc. Botany, the student will be able to:

PSO No	Program Specific Outcomes (PSOs)
PSO 1	Academic Expertise <ol style="list-style-type: none"> i. Understand basic principles of various branches of Botany such as systematics, evolution, ecology, physiology, biochemistry, plant pathology, morphology, anatomy, genetics, plant breeding and molecular biology of various life-forms and its related interdisciplinary subjects like biotechnology, bioinformatics, biostatistics etc. ii. Develop the ability to identify major plant groups and plant forms along with their ecological and economic significance iii. Acquire practical skills to gather, analyze and interpret data on structures and functions of plant forms iv. Apply the knowledge of the subject to make scientific queries and solve the problems for human welfare. v. Apply the knowledge of basic principles of plant sciences and vital processes of plants to study and analyses plant forms. vi. Use of analytical and computational skills to solve problems in basic and advanced Botany.
PSO 2	<ol style="list-style-type: none"> i. Inquisitive Learner ii. Continue studies by self-learning mode to manage with increasing competition for higher education and employment
PSO 3	Social Competence <ol style="list-style-type: none"> i. Many of the activities engaged for learning Botany require working in teams. So the students will develop skills of effective interpersonal communication, learn to respect the views of other team members and extend cooperation to successfully complete the given tasks.
PSO 4	<ol style="list-style-type: none"> i. Effective Communication ii. Express his/her views and opinions on current problems in the field of Botany in simple and effective language
PSO 5	Environmental Awareness <ol style="list-style-type: none"> i. Appreciate the role of various plant groups in different ecosystems and the impact of natural and anthropogenic activities on them. Students will be able to suggest remedies to various issues related to the environment around us.
PSO 6	Digital Competence <ol style="list-style-type: none"> i. Acquire digital skills and integrate the fundamental concepts with modern tools used in plant sciences.

	<ul style="list-style-type: none"> ii. The students will be able to use the computational skills they have acquired to handle the biological data and solve the problems or give suggestions based on mathematical models.
PSO 7	<p>Experiential Learning</p> <ul style="list-style-type: none"> i. Several visits to study vegetation and ecosystems, industries and laboratories will enable students to have close observations of real time procedures and practices used in various industries based on Botany. It will have a beneficial impact on them when they start working in industries.
PSO 8	<p>Ethical and Moral Values</p> <ul style="list-style-type: none"> i. Deliver and exercise social, environmental and biological ethics.
PSO 9	<p>Stress Management</p> <ul style="list-style-type: none"> i. Learn to manage their stress quite effectively since Botany is a subject about plants and their place in various ecosystems. A lot of activities like gardening, landscape management, nature walks, nature photography, exploring the vegetation around us and appreciation of nature around us can effectively help in managing stress.
PSO 10	<p>Extramural Skills</p> <ul style="list-style-type: none"> i. Help the society to understand the importance of plants, gardens, forests and various ecosystems and their role in our day-to-day life. ii. Encourage people to go closer to nature by following approaches like organic farming and the importance of organically produced agricultural commodities. iii. Make society aware about the importance and procedures for conservation of rare and endangered plants in their area. iv. Make people aware of incorrect practices related to plants and ecosystems and suggest better approaches for sustainable development.