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

Shivajinagar, Pune – 411005

Department of Botany

Program Outcomes (POs)

Programme: M. Sc. Botany

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

PSO No		Program Outcomes (POs)
PSO 1	i.	Knowledge or Academic Expertise
	ii.	Understand the fundamental principles of Botany, including systematics, evolution, ecology, physiology, biochemistry, plant pathology, morphology, anatomy, genetics, plant breeding, and molecular biology of various life-forms, as well as related interdisciplinary subjects such as biotechnology, bioinformatics, and biostatistics.
	iii.	develop the capacity to identify important plant groups and plant forms, as well as their ecological and economic significance
	iv.	gain practical skills in gathering, analyzing, and interpreting data on the structures and functions of plant forms
	V.	Use the concepts, methodology and applications of plant improvement and work in seed industry as Technician and Assistant Plant Breeder.
	vi.	apply the knowledge of the to formulate scientific questions and solve challenges affecting human wellbeing.
	vii.	apply the knowledge of basic principles of plant sciences and vital processes of plants to research and analyses plant forms.
	viii.	use of bioinformatics tools and databases and in the application of statistics to biological data.
	ix.	identify various life forms of plants, design and execute experiments related to basic studies on evolution, ecology, developmental biology, physiology, biochemistry, plant interactions with microbes and insects, morphology, anatomy, reproduction, genetics, and transgenic technology. Students are also familiarized with the Use of analytical and computational skills in solving difficulties in basic and intermediate botany.
PSO 2	Inqu	isitive learner or involved in Lifelong learning
	i.	Continue self-study to keep up with the rising competition for further education and employment.
PSO 3	Socia i.	I competence Many of the activities used to learn Botany necessitate collaboration. As a result, the students will acquire good interpersonal communication skills, how to respect the opinions of others in the team, and how to work together to fulfill the tasks.
PSO 4	Effec	etive Communication

i	Use clear and effective language to express his or her thoughts and ideas	
1.	on contemporary botany issues.	
Fnui	ronmental awareness	
1.	Identify the roles of diverse plant groups in various ecosystems, as well on the effects of network and anthropogenic activities on them. Students	
	as the effects of natural and anthropogenic activities on them. Students	
	will be able to propose solutions to a variety of concerns relating to the	
DI 1/	environment.	
	al competence	
1.	Develop digital skills and link core principles with modern plant science	
	technologies.	
11.	The students will be able to apply their computational skills to manage	
	biological data, solve problems, and make recommendations based on	
	mathematical models.	
Expe	eriential Learning	
i.	Students will be able to observe real-time procedures and practises	
	utilized in many businesses based on Botany during several visits to	
	study plants and ecosystems, industries, and laboratories. When students	
	begin working in industries, it will be useful to them.	
Ethic	al values	
i.	Demonstrate and apply social, environmental, and biological ethics.	
Stress management		
i.	Learn to handle their stress properly as Botany is a subject regarding	
	plants and their roles in many ecosystems, many activities, such as	
	gardening, landscape management, nature walks, nature photography,	
	investigating the vegetation around us, and appreciating the beauty of	
	nature, can successfully help in stress management.	
Extra	amural Skills	
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i.	Assist society in comprehending the value of plants, gardens, woods, and various ecosystems, as well as their involvement in our daily lives.	
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i. ii.	Assist society in comprehending the value of plants, gardens, woods, and various ecosystems, as well as their involvement in our daily lives. Encourage people to become more connected to nature by promoting organic farming and the value of organically produced agricultural goods.	
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