SATPUDA SHIKSHAN VA GRAMIN VIKAS SANSTHA'S

Bapumiya Sirajoddin Patel Arts, Commerce and Science College, Pimpalgaon Kale

Minority Status Institution

Affiliated to Sant Gadge Baba Amaravati University, Amaravati

Accredited with "B" Grade by NAAC

DEPARTMENT OF BOTANY

Programme Outcome: B.Sc. Botany

DEPARTMENT OF BOTANY	After Successful Completion of three year degree program in Botany a student is able to;
PROGRAMME OUTCOME	PO-1. Students know about different types of lower & higher plants their evolution in from algae to angiosperm &also their economic and Ecological importance.
	PO-2. They knows economic importance of various plant products.
	PO-3. Student can describe morphological & reproductive characters of plant and also identified different plant families and classification.
	PO-4. Cell biology gives knowledge about cell organelles & their functions. Genetics provides knowledge about laws of inheritance, various genetic interactions, chromosomal abberations & multiple alleles. Structural changes in chromosomes.
	PO-5. Students are able to understand the Physiological changes and metabolic reactions in the cell.
	PO-6. Molecular biology gives knowledge about chemical properties of nucleic acid and their role in living systems.
	PO-7. Students know about the Recombinant DNA technologies.
PROGRAMME SPECIFIC OUTCOMES	PSO-1. Students acquire fundamental Botanical knowledge through theory and practical's. PSO-2. To explain basis plant of life, reproduction and their survival in nature. PSO-3. Helped to understand role of living and fossil plants in our life. PSO-4. Understand good laboratory practices and safety. PSO-5 To create awareness about cultivation, conservation and sustainable utilization of biodiversity. PSO-6. To know advance techniques in plant sciences like tissue culture etc. PSO-7 Students able to start nursery for medicinal plants cultivation.
COURSE	**Course Outcomes B.Sc Botany**
	Outcomes After completion of these courses students should be able to;

SEM I- DIVERSITY AND APPLICATION OF MICROBES AND CRYPTOGAMS	CO-1. Study of cryptogams to understand their Diversity. CO-2. Know the systematics, morphology and structure of algae, fungi, bryophytes, and Pteredophytes. CO- 3. Know life cycle pattern of cryptogams. CO-4. Know economic importance of cryptogams. CO-5.Know evolution of algae, fungi, bryophytes and Pteridophytes.
SEM II- GYMNOSPERM, MORPHOLOGY OF ANGIOSPERM AND UTILIZATION OF PLANTS	CO-1. Systematic study of gymnosperms and angiosperms. CO-2.Understand the morphological and reproductive character of spermatophytic plants. CO-3.Understand economic importance of gymnosperms and angiosperms. CO-4.Understand the diversity among spermatophyte. CO-5.To bring investigation of palaeobotanical study in India. CO-6.Know, scope and application of Palaeobotany. CO-7.Know types of fossils, geological time scale.
SEM III- ANGIOSPERM SYSTEMATICS,ANATOMY AND EMBRYOLOGY	CO- 1. Know about systematic classification & nomenclature. CO-2. Knows about taxonomic aspects of angiosperms. CO-3. Know about the taxonomic families (both Dicot and Monocot families) CO-4. Understand the anatomical structure of plants and function of various cells and tissues. CO-5. Understand the basic embryology and reproduction
SEM IV-CELL BIOLOGY AND GENETICS AND BIOCHEMISTRY	CO-1.Gain knowledge about cell and its function. CO-2. Understand ultrastructure of cell wall, plasma membrane and cell organelles. CO-3. Understand the biochemistry of cell. CO-4.Understand the Mendelian genetics. CO-5.Know about interaction of genes, multiple alleles and linkage and crossing over. CO-6. Know about sex linked inheritance, chromosomal aberrations.
SEM V-PLANT PHYSIOLOGY AND ECOLOGY	CO-1.Know scope and importance of plant physiology. CO-2 Understand the different biochemical reaction of biomolecules in plant cell. CO-3.Understand process of photosynthesis, C3, C4, CAM pathways. CO-4.Understand the process of respiration, growth and developmental process in plant. CO-5. Know the biotic and abiotic components of ecosystem.

	CO-6.Understand plant community & ecological adaptation in plants.
SEM VI- MOLECULAR BIOLOGY AND BIOTECHNOLOGY	CO-1.Learn the scope and importance of molecular biology. CO-2. Understand the biochemical nature of nucleic acid and their role in living systems. CO-3.Understand the fundamental of recombinant DNA technology. CO-4.Understand tissue culture techniques. CO-5.Understand the concept of bioinformatics, genomics & proteomics. CO-6.Understand technical germplasm & cryopreservation.

HOD **Principal**