Mahatma Gandhi Vidyamandir's

Smt. Pushpatai Hiray Mahila Mahavidyalya, Malegaon, Dist. Nashik.

Department of Botany

Programme Outcomes: B.Sc Botany

After successful completion of three year degree program in Botany a student is able to;

Course Name	Course outcome
	F.Y.B.Sc
	CO-1. Students learn different types of lower & higher plants and their evolution in from algae to angiosperm. CO-2. Students know the Cell biology CO-3. Molecular biology gives knowledge about chemical properties of nucleic acid CO-4.The students are able to understand about Plant taxonomy and their systematic classification system
S.Y.B.Sc (Sem II)	
Taxonomy of Angiosperms and Plant community	CO-1. The students understand the Plant taxonomy and their classification systems. CO-2. Students know the modern approaches in taxonomic studies. CO-3. Students learn the role of taxonomy in conservation of biodiversity. CO-4. Learn the diversity of angiosperms. CO-5. Know the comparative account among the families of angiosperms. CO-6. Understand the economic importance of the angiosperm plants. CO-7. Understand the distinguishing features of angiosperm families
Plant Physiology	CO-1. Students learn the absorption, translocation and utilization of water and other minerals. CO-2. Understand the changes during growth process (germination to abscission). CO-3. Learn the energy flow and various metabolic cycles with their

	integration. CO-4. Understand the overall perception about various physiological processes occurring in plants.
S.Y.B.Sc (Sem II)	
Plant Anatomy and Embryology	CO-1. Students know the scope & importance of Anatomy and Embryology. CO-2. Learn the various tissue systems. CO-3. Know the normal and anomalous secondary growth in plants and their causes. CO-4. Perform the techniques in anatomy. CO-5. Understand male and female gametophytes. CO-6. Know fertilization, endosperm and embryogeny.
Plant Biotechnology	CO-1. Understand the fundamentals of plant tissue culture techniques. CO-2. Know the transgenic technology for the improvement of quality and quantity of plant and thereby product. CO-4. Learn the application and importance of plant tissue culture and transgenic plants.
T.Y.B.Sc (Sem III)	
Cryptogamic Botany	CO-1. Students understand the cryptogams and their Diversity. CO-2. Understand the systematics, morphology and structure of algae, fungi, bryophytes, and Pteredophytes. CO- 3. Acquaint with the life cycle pattern of cryptogams. CO-4. Understand the economic importance of cryptogams. CO-5. Aware about evolution of algae, fungi, bryophytes and Pteredophytes
Cell and Molecular Biology	CO-1. Acquaint about cell and its function. CO-2. Know the scope and importance of molecular biology. CO-3. Acquaint with the ultra structure of cell wall, plasma membrane and cell organelles CO-4. Understand the biochemistry of cell.
	CO-1. Students are acquainting with the Mendelian and neo Mendelian genetics.

Genetics and Evolution	CO-2 Understand about interaction of genes, multiple alleles and linkage and crossing over. CO-3. Learn about the sex linked inheritance, chromosomal aberrations. CO-4. Understand the evolutionary sequence of various groups of plants.
Spermatophyta and Palaeobotany	CO-1. Students learn the gymnosperms and angiosperms. CO-2. Know the morphological and reproductive character of spermatophytic plants. CO-3.Understand economic importance of gymnosperms and angiosperms. CO-4.Know the diversity of spermatophyte. CO-5. Learn the scope and application of Palaeobotany.
Horticulture and Floriculture	CO-1.Students learns the economic importance of plant and plant product. CO-2. Students acquaint with the methods of plant propagation. CO-3.Understand the fruit & vegetables production technology. CO-4. Learn the scope & importance of floriculture.
Computational Botany	CO-1.Students knows the scope & importance of biostatistics. CO-2.Learn the scope and some basic commonly used terms like sampling, data, dispersion, population, central tendency etc. CO-3.Students knows how to apply statistical analysis to biological data for testing different hypothesis.
T.Y.B.Sc (Sem IV)	
Plant Physiology and Biochemistry	CO-1.Learn the scope and importance of plant physiology. CO-2.Learn the process of respiration, growth and developmental process of plant. CO-3.Understand the biochemistry of cell.
Plant Ecology and Biodiversity	CO-1.Learn the biotic and abiotic components of ecosystem. CO-2.Know the diversity of various groups of plant kingdom. CO-3. Acquaint with the plant community & ecological adaptation in plants.

	CO-4. Learn the scope, importance and management of biodiversity.
Plant Pathology	CO-1.Know the scope and importance of plant pathology. O-2.Acquaint with the disease cycle and disease development. CO-3.Understand the effect of plant diseases on economy of crops. CO-4.Know the methods of studying plant diseases. CO-5. Acquaint with the prevention and control measures of various plant diseases.
Medicinal and Economic Botany	CO-1.Understand the importance of pharmacognosy. CO-2.Learn the cultivation, collection, processing & importance of various herbal drugs. CO-3.Know the scope of economic botany. CO-4. Acquaint with the concept of Ayurvedic pharmacy.
Plant Biotechnology	CO-1.Learn the fundamental of recombinant DNA technology. CO-2.Unserstand the tissue culture techniques. CO-3. Acquaint with the role of microbes in agriculture , medicine & industry. CO-4.Learn the fermentation technology. CO-5.Know the concepts of bioinformatics, genomics & proteomics.
Plant Breeding and Seed Technology	CO-1.Learn the scope & importance of plant breeding. CO-2.Aware about the techniques of production of new superior crop varieties. CO-4.Learn the process of hybrid variety, development & their release. CO-5.Learn about the various seed germination, processing , production methods.