

Maratha Vidya Prasarak Samaj's

Karmaveer Shantarambapu Kondaji Wavare Arts, Science and Commerce College, CIDCO, Nashik Uttamnagar, Nashik- 422 008 (Maharashtra)

Affiliated to Savitribai Phule Pune University Id. No. PU/NS/ASC/047/1993

AISHE C-42086 NAAC Re-accredited 'A' Grade (III Cycle 2017-22, CGPA 3.20)

Best College Award of Savitribai Phule Pune University Pune in 2009-10 and 2021-22

Programme Outcomes (PO's) Internal Quality Assurance Cell



Programme
Specific Outcomes
(PSO's)



Course Outcomes (CO's)

Syllabus: 2013 Pattern





Maratha Vidya Prasarak Samaj's KARMAVEER SHANTARAMBAPU KONDAJI WAVARE ARTS, SCIENCE AND COMMERCE COLLEGE, CIDCO

Uttamnagar, Nashik- 422 008 (Maharashtra)

Principal
Prof. (Dr) S. K. Kushare
M.Sc., Ph. D.

Affiliated to Savitribai Phule Pune University Id. No. PU/NS/ASC/047/1993

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Best College Award of Savitribai Phule Pune University Pune in 2009-10 and 2021-22

Programme Outcome (PO's), Programme Specific Outcome (PSO's), Course Outcome (CO's) **Department: Botany**

Syllabus: 2013 Pattern

Sr. No.	Name of the Programme	Year of introduction of programme	Duration of introduction of Programme
1	B.Sc Botany	2000-2001	3 Years

Programme Specific Outcome (B.Sc Botany)

Sr. No.	Programme Specific Outcome (B.Sc Botany)
PSO 1	Students would acquire fundamental Botanical knowledge through theory and practical's.
PSO 2	To explain basis plant of life, morphology, reproduction and their survival in nature.
PSO 3	Help to understand role of living and fossil plants in our life.
PSO 4	Understand good laboratory practices and safety.
PSO 5	Students acquired knowledge through practical work in fields as well as in laboratory.
PSO 6	To create awareness about conservation and sustainable utilization of biodiversity.
PSO 7	To know advance techniques in plant sciences like molecular, genetic, Phytoremediation, tissue culture, formulation of new herbal drugs, plant disease control, etc.
PSO 8	Students will be able to start nursery, horticultural practices and seed production.

Course Outcome (B.Sc Botany)

Class	Subject	Title	Cos: After successful completion of
	code		This course, student will be able to
F.Y.B.Sc	BO-111	Plant Diversity	CO1: Understand difference between Higher cryptogams
Sem-I			and Lower cryptogams.
			CO2: Know the systematic, morphology and structure, of
			Algae. Understand the life cycle pattern of Algae.
			CO3: Know the various types of lichen.
			CO4: Understand general characters, reproduction of Fungi.
			CO5: Understand the morphological diversity of
			Bryophytes.
			CO6: Understand the economic importance of the
	DO 112	* 1	Bryophytes.
	BO- 112	Industrial	CO1: Know the various concepts and methods in
		Botany I	taxonomy.
			CO2: Know the various parts of flowers.
			CO3: Understand the types of fruits.
	BO – 113	Practical Botany	CO1: Study of life cycle of Spirogyra, <i>Agaricus</i> and <i>Riccia</i> .
		-I	CO2:Study of Lichens and its types.
			CO3:Practical knowledge of mushroom cultivation.
			CO4: Basic Structure of monocot and dicot.
F.Y.B.Sc	BO-121	Plant	CO1: Know the evolutionary trends and affinities of living
Sem-II		Morphology and	gymnosperms with respect to external and internal
		Anatomy	features
			CO2: Know the economic importance of the gymnosperm
			and angiosperms.
	BO – 122	Industrial	CO1:Understand the process of translocation of solutes in
		botany II	plants.
			CO2: Understand the factors affecting growth of plants.
			COAL Learn the Structure and types of DNA and DNA
	DO 100		CO4: Learn the Structure and types of DNA and RNA.
	BO – 123	Practical Botany -II	CO1:Demonstrate structure of Dicotyledonous and
			Monocotyledonous plants
			CO2: Observe characteristic features of prokaryotic and
			eukaryotic plant cell.
			CO4: Study shout shlorophyll a and shlorophyll h
S.Y.B.Sc	BO 211	Toyonomy of	CO1: Trees the history of development of systems of
S.Y.B.Sc Sem-III	DU 211	Taxonomy of	CO1: Trace the history of development of systems of classification emphasizing angiosperm taxa.
Sem-m		Angiosperms	1 0 0 1
		and Plant	CO2: Understand various rules, principles and
		Comunity	recommendations of plant nomenclature produces in plant identification.
			-
			CO3: Learn and understand about interdisciplinary

Class	Subject code	Title	Cos: After successful completion of This course, student will be able to
	Couc		approach of ecology.
			CO4: Understand ecological grouping of the plants.
	BO 212	Plant	CO1:Understand the process of translocation of solutes in
		Physiology	plants
			CO2:Know the nitrogen metabolism and its importance.
			CO3 :Know about phytohormones and vernalization in
			plants
	BO 213	Practical Based	CO1: Know the morphological and reproductive characters
		on BO211 &	of plant family.
		BO212	CO2: Study about ecological adaptations in Hydrophytes and Xerophytes.
			CO3:Demonstration of various instruments.
S.Y.B.Sc Sem IV	BO 221	Plant Anatomy and Embryology	CO1: Know Epidermal tissue system and Mechanical tissue system.
Schi i v		and Emoly ology	CO2: Understand the Microsporangium and male
			gametophyte.
			CO3:Understand the Megasporangium and female
			gametophyte.
		Plant Biotechnology	CO1: Understand the principle and basic protocols for Plant Tissue Culture.
			CO2: Know about the Genetic Engineering.
			CO3: Know about the biofuel technology.
	BO 223		CO1: Understand various plant tissue.
	on BO 221 &	CO2: Study the preparation of permanent slide.	
		BO 222	CO3: Understand the Preparation & sterilization of MS medium.
			CO4: Study about transgenic crops.
.Y.B.Sc	BO 331	BO: 331	CO1: Understand the cryptogamic diversity.
Sem-V	20 331	Cryptogamic	CO2: Know life cycle pattern of cryptogams.
		Botany	CO3:Know economic importance of cryptogams.
		J. T. J.	CO4: .Know thallus structure and reproduction of algae,
			fungi, bryophytes and Pteridophytes.
	BO 332	BO.332: Cell	CO1: Gain knowledge about cell and its function.
		and Molecular	CO2: Learn the scope and importance of molecular
		Biology	biology.
			CO3: Understand ultra-structure of cell wall, plasma
			membrane and cell organelles.
			CO4: Understand the biochemistry of cell.
			CO5:Understand the biochemical nature of nucleic acid and
	DC 255	DO 222	their role in living systems.
	BO 333	BO: 333:	CO1: Understand the Mendelian and neo-Mendelian

Class	Subject	Title	Cos: After successful completion of
	code	Canatias and	This course, student will be able to
	-	Genetics and Evolution	genetics.
		Evolution	CO2: Know about interaction of genes, multiple alleles and
	-		linkage and crossing over.
			CO3: Know about sex linked inheritance, chromosomal
	-		aberrations.
			CO4: Know the evolutionary sequence of various groups of plants.
	BO 334	BO.334:	CO1: Understand the Systematic study of gymnosperms
		Spermatophyta and	and angiosperms. CO2: Understand the morphological and reproductive
		Palaeobotany	character of spermatophytic plant
		Talacosotany	CO3: To bring investigation of palaeobotanical study in
			India.
			CO4: Know types of fossils, geological time scale.
	BO 335	Horticulture and	CO1: Understand economic importance of plant and plant
		Floriculture	product.
			CO2: Know the methods of plant propagation.
			CO3: Understand the fruit & vegetables production technology.
			CO4: Understand the scope & importance of floriculture.
			CO5: Understand the methods of cultivation of different flowering plants.
	BO 336	Computational	CO1: Understand the scope & importance of biostatistics.
		Botany	CO2: Understand the scope and some basic commonly used
			terms like sampling, data, dispersion, population, central tendency etc.
			CO3: Knowledge to apply statistical analysis to biological
			data for testing different hypothesis
T.Y.B.Sc	BO 341	BO. 341: Plant	CO1: Know scope and importance of plant physiology.
Sem VI		Physiology	CO2: Understand plant & water relation.
			CO3: Understand process of photosynthesis, C3, C4, CAM pathways.
			CO4: Understand the process of respiration, growth and
			developmental process in plant.
			CO5: Understand the biochemistry of cell.
	BO 342	BO.342: Plant	CO1: Know the biotic and abiotic components of
		Ecology and	ecosystem.
		Biodiversity	CO2: Food chain & food web in ecosystem.
			CO3: Understand plant community & ecological adaptation in plants.
			CO4: Scope, importance and management of biodiversity.
	BO 343	BO.343: Plant	CO1: Understand scope and importance of plant pathology.

Class	Subject code	Title	Cos: After successful completion of This course, student will be able to
		Pathology	CO2: Know disease cycle and disease development.
			CO3: Know the effect of plant diseases on economy of crops.
			CO4: They can identify the plant diseases like bacterial, nematodal, and fungal.
			CO5: Know the disease forecasting.
			CO6: Know the prevention and control measures of plant diseases.
	BO 344	BO.344:	CO1: Understand scope and importance of pharmacognosy.
		Medicinal and Economic	CO2: Know the cultivation, collection, processing & importance of various herbal drugs.
		Botany	CO3: Understand the scope of economic botany and ayurvedic pharmacy.
			CO4: Know the botanical resources like non wood forest products.
			CO5: Understand scope and importance of pharmacognosy.
			CO6: Know the cultivation, collection, processing & importance of various herbal drugs.
	BO 345 BO. 345: Plant Biotechnology		CO1: Understand the fundamental of recombinant DNA technology.
			CO2: Understand tissue culture techniques.
			CO3: Role of microbes in agriculture, medicine & industry.
		CO4: Understand the concept of bioinformatics, genomics & proteomics.	
			CO5: Understand technical germplasm & cryopreservation.
	BO 346 BO346: Plant Breeding and Seed Technology	CO1: Understand the scope & importance of plant breeding.	
		CO2: Know the technique of production of new superior crop varieties.	
			CO3: Know the about heterosis, hybrid vigour etc.
			CO4: Know the process of hybrid variety, development & their release.
			CO5: Know about seed germination, processing, production, storing etc.
T.Y.B.Sc	BO 347	Botany Practical	CO1: The range of thallus structure in algae, fungi,
Sem IV		Paper I	bryophytes and pteridophytes.
			CO2: Study of Chromosomes Morphology. CO3: Estimation of Plant DNA by DPA Method
			CO4: Extraction and estimation of RNA by Orcinol Method
	BO 348	Botany Practical Paper II	CO1: Solving of problems on gene mapping using three- point test cross data

Class	Subject	Title	Cos: After successful completion of
	code		This course, student will be able to
			CO1: Study of the families with respect to morphological
			characters using botanical terms, floral formula, floral
			diagram and classification giving.
			CO2: Study of <i>Pinus & Gnetum</i> .
			CO3: Study of different types of fossils.
			CO4: Demonstration of Hybridization Techniques.
			CO5: Study of polluted water body with ref. to BOD.
			CO6: Study the Polyploidy induction in Allium cepa by colchicine.
	BO 349	Botany Practical	CO1: Study of Garden tools and Equipment's.
		Paper III	CO2: Study techniques in Horticulture and floriculture like cutting, Layering, Budding, Grafting.
			CO3: Solving of problem on mean, mode, median, variance and standard deviation.
			CO4: Study of Koch's Postulates.
			CO5: Study the different Culture technique.
			CO6: Study of Bacterial Disease w.r.t. Causal organism,
			Symptoms and control measures.
			CO7: Study of viral diseases w.r.t. Causal organism and Symptoms.
			CO8: Study of Plant extraction methods.



IQAC Coordinator



Principal
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Arts.science and Commerce College,
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Programme Specific Outcomes (PSO's)



Course Outcomes (CO's)

Syllabus: 2019 Pattern





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PSO 7	To know advance techniques in plant sciences like molecular, genetic, Phytoremediation, tissue culture, formulation of new herbal drugs, plant disease control, etc.
PSO 8	Studentswill be able to start nursery, horticultural practices and seed production.

Course Outcomes B.Sc.

Class	Subject	Title	Cos:After successful completion of	
	code		This course, student will be able to	
F.Y.B.Sc Sem-I	BO-111	Plant life and utilization I	 CO1: Understand difference between Higher cryptogams and Lower cryptogams. CO2: Know the systematic, morphology and structure, of Algae. Understand the life cycle pattern of Algae. CO3: Know the various types of lichen. CO4: Understand general characters, reproduction of Fungi. CO5: Understand the morphological diversity of Bryophytes. CO6: Understand the economic importance of the 	
	BO- 112	Plant morphology and Anatomy	Bryophytes. CO1: Know the various concepts and methods in taxonomy. CO2: Know the various parts of flowers. CO3: Understand the types of fruits.	
	BO – 113	Practical Botany -I	CO1:Study of life cycle of Spirogyra, Agaricus and Riccia. CO2: Study of Lichens and its types. CO3: Practical knowledge of mushroom cultivation.	
F.Y.B.Sc Sem-II	BO-121	Plant life and Utilization-II	CO4: Basic Structure of monocot and dicot. CO1: Know the evolutionary trends and affinities of living gymnosperms with respect to external and internal features CO2:Know the economic importance of the gymnosperm and angiosperms.	
	BO – 122	Principles of plant science	CO1:Understand the process of translocation of solutes in plants. CO2: Understand the factors affecting growth of plants. CO3: Know the cell cycle process in plants. CO4: Learn the Structure and types of DNA and RNA.	
	BO – 123	Practical Botany -II	CO1:Demonstrate structure of Dicotyledonous and Monocotyledonous plants CO2: Observe characteristic features of prokaryotic and eukaryotic plant cell. CO3: Preparation of slides using onion root tips. CO4: Study about chlorophyll-a and chlorophyll-b.	
S.Y.B.Sc	BO 231	Taxonomy of	CO1: Trace the history of development of systems of	

	_	Title	Cos:After successful completion of	
Com III	code	Angiagnamma	This course, student will be able to	
Sem-III		Angiosperms and Plant	classification emphasizing angiosperm taxa.	
		Ecology	CO2: Understand various rules, principles and	
			recommendations of plant nomenclature produces	
			in plant identification. CO3: Learn and understand about interdisciplinary	
			approach of ecology.	
			CO4: Understand ecological grouping of the plants.	
	BO 232	Plant	CO1:Understand the process of translocation of solutes	
		Physiology	in plants	
			CO2:Know the nitrogen metabolism and its	
			importance.	
			CO3 :Know about phytohormones and vernalization in	
	70.655		plants.	
	BO 233	Practical Based	CO1: Know the morphological and reproductive	
		on BO231 & BO232	characters of plant family.	
		BU232	CO2: Study about ecological adaptations in Hydrophytes and Xerophytes.	
			CO3:Demonstration of various instruments.	
S.Y.B.Sc	BO 241	Plant Anatomy	CO1: Know Epidermal tissue system and Mechanical	
	and	•		
Sciii I v			•	
			CO3:Understand the Megasporangium and female	
			gametophyte.	
	BO 242	Plant	CO1: Understand the principle and basic protocols for	
		Biotechnology	Plant Tissue Culture.	
			CO2: Know about the Genetic Engineering.	
			CO3: Know about the biofuel technology.	
	BO 243		CO3: Know about the biofuel technology. CO1: Understand various plant tissue. CO2: Study the preparation of permanent slide.	
			CO2: Study the preparation of permanent slide.	
		BO 242	CO3: Understand the Preparation & sterilization of MS	
			medium.	
			CO4: Study about transgenic crops.	
T.Y.B.Sc	BO 351	BO: 331	CO1: Understand the cryptogamic diversity.	
Sem-V		Cryptogamic	CO2: Know life cycle pattern of cryptogams.	
		Botany	CO3:Know economic importance of cryptogams.	
			CO4: .Know thallus structure and reproduction of	
			algae, fungi, bryophytes and Pteridophytes.	
	BO 352	BO.332: Cell	CO1: Gain knowledge about cell and its function.	
		and Molecular	CO2: Learn the scope and importance of molecular	
		Biology	biology.	
			CO3: Understand ultra-structure of cell wall, plasma	
	BO 243	Plant Biotechnology Practical based on BO 241 & BO 242 BO: 331 Cryptogamic Botany BO.332: Cell	gametophyte. CO1: Understand the principle and basic protocols for Plant Tissue Culture. CO2: Know about the Genetic Engineering. CO3: Know about the biofuel technology. CO1: Understand various plant tissue. CO2: Study the preparation of permanent slide. CO3: Understand the Preparation & sterilization of MS medium. CO4: Study about transgenic crops. CO1: Understand the cryptogamic diversity. CO2: Know life cycle pattern of cryptogams. CO3:Know economic importance of cryptogams. CO4: .Know thallus structure and reproduction of algae, fungi, bryophytes and Pteridophytes. CO1: Gain knowledge about cell and its function. CO2: Learn the scope and importance of molecular biology.	

Class	Subject	Title	Cos:After successful completion of
	code		This course, student will be able to
			membrane and cell organelles.
			CO4: Understand the biochemistry of cell.
			CO5:Understand the biochemical nature of nucleic acid
			and their role in living systems.
	BO 353	BO: 333:	CO1: Understand the Mendelian and neo-Mendelian
		Genetics and	genetics.
		Evolution	CO2: Know about interaction of genes, multiple alleles
			and linkage and crossing over.
			CO3: Know about sex linked inheritance, chromosomal aberrations.
			CO4: Know the evolutionary sequence of various
			groups of plants.
	BO 354	BO.334:	CO1: Understand the Systematic study of
	2000	Spermatophyta	gymnosperms and angiosperms.
		and	CO2: Understand the morphological and reproductive
		Palaeobotany	character of spermatophytic plant
			CO3: To bring investigation of palaeobotanical study
			in India.
			CO4: Know types of fossils, geological time scale.
	BO 355	Horticulture	CO1: Understand economic importance of plant and
		and	plant product.
		Floriculture	CO2: Know the methods of plant propagation.
			CO3: Understand the fruit & vegetables production
			technology.
			CO4: Understand the scope & importance of
			floriculture.
			CO5: Understand the methods of cultivation of different flowering plants.
	BO 356	Computational	CO1: Understand the scope & importance of
	טט טטט	Botany	biostatistics.
		Downing	CO2: Understand the scope and some basic commonly
			used terms like sampling, data, dispersion,
			population, central tendency etc.
			CO3: Knowledge to apply statistical analysis to
			biological data for testing different hypothesis
	BO 3510	Medicinal	CO1: Understand economic importance of plant and
		Botany	plant product.
			CO2: Know the methods of plant propagation.
			CO3: Understand the fruit & vegetables production
			technology.
			CO4: Understand the scope & importance of floriculture.
			CO5: Understand the methods of cultivation of
			different flowering plants.
			different flowering plants.

Class	Subject	Title	Cos:After successful completion of
	code	Diama D'	This course, student will be able to
	BO – 3511	Plant Diversity and Human	CO1: Understand difference between Higher cryptogams and Lower cryptogams.
		Health	CO2: Know the systematic, morphology and structure, of Algae. Understand the life cycle pattern of Algae.
			CO3: Know the various types of lichen.
			CO4: Understand general characters, reproduction of Fungi.
			CO5: Understand the morphological diversity of Bryophytes.
T.Y.B.Sc Sem V	BO 357	Botany Practical Paper	The range of thallus structure in algae, fungi, bryophytes and pteridophytes.
		I	Study of Chromosomes Morphology.
			Estimation of Plant DNA by DPA Method
			Extraction and estimation of RNA by Orcinol Method
	BO 358	Botany Practical Paper	Solving of problems on gene mapping using three- point test cross data
		П	Study of the families with respect to morphological characters using botanical terms, floral formula, floral diagram and classification giving. Study of Pinus & Gnetum.
			Study of different types of fossils.
	BO 359	Botany Practical Paper	Solving of problem on mean, mode, median, variance and standard deviation.
		III	Study of Koch's Postulates.
			Study the different Culture technique.
			Study of Bacterial Disease w.r.t. Causal organism, Symptoms and control measures.
T.Y.B.Sc	BO 361	BO. 341: Plant	Know scope and importance of plant physiology.
Sem VI		Physiology and	Understand plant & water relation.
		Biochemistry	Understand process of photosynthesis, C3, C4, CAM pathways.
			Understand the process of respiration, growth and developmental process in plant.
			Understand the biochemistry of cell.
	BO 362	BO.342: Plant	Know the biotic and abiotic components of ecosystem.
		Ecology and	Food chain & food web in ecosystem.
		Biodiversity	Understand plant community & ecological adaptation in plants.
			Scope, importance and management of biodiversity.
	BO 363	BO.343: Plant	Understand scope and importance of plant pathology.
		Pathology	Know disease cycle and disease development.

Class	Subject	Title	Cos:After successful completion of
	code		This course, student will be able to
			Know the effect of plant diseases on economy of crops.
			They can identify the plant diseases like bacterial,
			nematodal, and fungal. Know the disease forecasting.
			Ü
			Know the prevention and control measures of plant diseases.
	BO 364	BO.344: Medicinal and Economic Botany	Understand scope and importance of pharmacognosy.
			Know the cultivation, collection, processing & importance of various herbal drugs.
			Understand the scope of economic botany and ayurvedic pharmacy.
			Know the botanical resources like non wood forest products.
			Understand scope and importance of pharmacognosy.
			Know the cultivation, collection, processing & importance of various herbal drugs.
	BO 365	BO. 345: Plant Biotechnology	Understand the fundamental of recombinant DNA technology.
			Understand tissue culture techniques.
			Role of microbes in agriculture, medicine & industry.
			Understand the concept of bioinformatics, genomics &
			proteomics.
			Understand technical germplasm & cryopreservation.
	BO 366	BO346: Plant	Understand the scope & importance of plant breeding.
		Breeding and Seed	Know the technique of production of new superior crop varieties.
		Technology	Know the about heterosis, hybrid vigour etc.
			Know the process of hybrid variety, development & their release.
			Know about seed germination, processing, production, storing etc.
	BO 3610	Nursery and Gardening Management	To understand scope , importance & disciplines of horticulture.
			To understand different horticultural practices & methods
			To understand production technology, harvesting technics.
	DC 2611	Di e dii	To understand methods of preservati
	BO 3611	Biofertilizers	CO1: Estimation of Phosphatic fertilizers from agricultural soil using colorimeter

Class	Subject	Title	Cos:After successful completion of
	code		This course, student will be able to
			/Spectrophotometer
			CO2: The course is designed to provide comprehensive
			knowledge to the students regarding the general
			information, application and production
T.Y.B.Sc	BO 367	Dotoma	technology of Biofertilizers
Sem IV	DU 307	Botany Practical Paper	CO1: The range of thallus structure in algae, fungi, bryophytes and pteridophytes.
Sem I v		I	CO2: Study of Chromosomes Morphology.
			CO3: Estimation of Plant DNA by DPA Method
			CO4: Extraction and estimation of RNA by Orcinol
			Method
	BO 368	Botany	CO1: Solving of problems on gene mapping using
		Practical Paper	three-point test cross data
		II	CO2: Study of the families with respect to
			morphological characters using botanical terms,
			floral formula, floral diagram and classification giving.
			CO3: Study of Pinus & Gnetum.
			CO4: Study of different types of fossils.
			• • • • • • • • • • • • • • • • • • • •
			CO5: Demonstration of Hybridization Techniques.
			CO6: Study of polluted water body with ref. to BOD.
			CO7: Study the Polyploidy induction in Allium cepa by colchicine.
	BO 369	Botany	CO1: Study of Garden tools and Equipment's.
		Practical Paper III	CO2: Study techniques in Horticulture and floriculture like cutting, Layering, Budding, Grafting.
			CO3: Solving of problem on mean, mode, median, variance and standard deviation.
			CO4: Study of Koch's Postulates.
			CO5: Study the different Culture technique.
			CO6:Study of Bacterial Disease w.r.t. Causal
			organism, Symptoms and control measures.
			CO7: Study of viral diseases w.r.t. Causal organism
			and Symptoms.
			CO8: Study of Plant extraction methods.







