Shri Swami Vivekanand Shikshan Sanstha's

Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji

DEPARTMENT OF BOTANY

CO AND PSO

Sr. No.	Programme Specific Outcome
PSO 1	Knowledge and understanding of nature and basic concepts of plant groups
PSO 2	Scientific Knowledge cryptogams and phanerogams: To understand structure and functions of microbes early vascular plants and higher tracheophytes like ptredophytes and gymonosperms
PSO 3	To know the diversity, systematics of angiosperms and environment sustainability.
PSO 4	The acquaint the students with functional aspect of plant life i.e. gardening, plant physiology, biochemistry, biotechnology and herbal products.
PSO 5	Development of Practical based skills and development of skill of handling of instruments and practical material

"Dissemination of Education for Knowledge, Science and Culture"
Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji

DEPARTMENT OF BOTANY

Course Outcomes

Sr. No.	Class	Paper number and name	Course Outcome
1.	B. Sc.- I Sem. I and Sem. II	**Paper I:** DSC- 13 A: BIODIVERSITY OF MICROBES, ALGAE AND FUNGI	CO1.To understand diversity of microbes, algae and fungi CO2. To interpret importance of Algae, Fungi and to relate the different classification systems to gain knowledge on the lower plants. CO3.Relate the various trends for classification of Algae, fungi CO4.Analyze the characteristics of lower group of plants and compare the diversity with other forms of plant kingdom
2.		**Paper II:** DSC- 14 A: BIODIVERSITY OF ARCHEGONIATE- BRYOPHYETS, PTERIDOPHYTES, GYMNOSPERMS	CO1.Understand the general characters and life cycle of various Bryophytes Pteridophytes and Gymnosperms CO2.Aptitude for identification of Archegoniates.Classify and compare the structure and life cycle of Bryophytes, Pteridophytes and Gymnosperms CO3.Criticize the structure of certain life forms and their economic importance Bryophytes and Pteridophytes CO4. Analysis evolution of lower and higher plants
3.		**Paper III:** DSC- 13 B: PLANT ECOLOGY	CO1. Define the of knowledge of succession of plant community and Ecosystem CO2.Recognize the concept, types, development and functions of various ecosystems and their communication. The various environmental factors governing these ecosystems are also clearly understood. CO3.Infer plant communities and ecological adaptions in plants. CO4. TO learn various environmental factors effecting

			ecosystem.
4.		**Paper IV:** DSC- 14 B: PLANT TAXONOMY	CO1. Determine the Morphological, reproductive concepts in the identification of plants and assign them to under appropriate families CO2.Understand the plant morphology and basic taxonomy CO3.Displaying the herbarium techniques and Familiarize the Bentham and Hooker system CO4. To learn about angiosperms plant body
5.	**B. Sc. II** Sem. III and Sem. IV	**Paper V:** DSC C13: EMBRYOLOGY OF ANGIOSPERMS	CO1. To develop scientific attitude is the major objective to make the students open minded, critical, curious. CO2. Students should define scientific terms, concepts, facts, phenomenon and their relationships. CO3. Know the conceptual development of "taxonomy" and systematic CO4. Estimate the general range of variations in the group of angiosperms.
6.		**Paper VI:** DSC C14: PLANT PHYSIOLOGY	CO1. Know importance and scope of plant physiology. CO2. Extending the plant movements. Understand the plants and plant cells in relation to water. CO3. Understand the process of photosynthesis in higher plants with particular emphasis on light and dark reactions, C3 and C4 pathways. CO4. Describe about the movement of sap and absorption of water in plant body and process of growth and development.
7.		**Paper VII:** DSC D13: PLANT ANATOMY	CO1. Understand the scope & importance of Anatomy. CO2. Know various tissue systems. CO3. Understand the normal and anomalous secondary growth in plants and their causes CO4. Demonstrate the techniques in anatomy.
8.		**Paper VIII:** DSC D14: PLANT METABOLISM	CO1. Highlighting the structure and general features of enzymes. CO2. Describe the concept of enzyme activity and enzyme inhibition. CO3. Know about Respiration in plants. CO4. Articulate the nitrogen metabolism, the process of translocation of solutes in plants and its importance.
9.	**B. Sc. III**	**Paper- IX** DSE –E25 Genetics and Plant Breeding	CO1. Critical evaluation of ideas in genetics CO2. Correlate the knowledge of genetics and methods of breeding techniques in crop plants CO3. Plan the need for genetic make-up in genetics CO4. Introduce Mendelism and Neo mendelism
10		**Paper- X**	CO1. Acquiring the basic procedure in the field of

	Sem. V and Sem. VI	DSE –E26 Microbiology, Plant Pathology and Mushroom Culture Technology	microbiology and plant pathology CO2. Role play the technology of mushroom cultivation CO3. Apply the industrial knowledge in microbiology CO4 To define microbial genetics
11		**Paper- XI** DSE –E27 Cytology and Research Techniques in Biology	CO1. Correlate the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles CO2.Understand the types of cell organelles and Compare the Structure of chromosomes and cell divisions CO3.Knowledge on the theory, operation and function of analytical instruments and the various instrumentations that are used in the analytical laboratories. CO4. To know the details of microscopy, chromatography, micrometry and culture techniques in botany
12		**Paper- XII** DSE–E28 Horticulture and Gardening	CO1. To build the skill in nursery , landscaping, gardening, floriculture CO2. Students will be able to demonstrate their knowledge, skill and attributes in horticultural profession CO3. Knowledge about agricultural and Horticultural crops CO4. To define methods of plant propagation
13		**Paper- XIII** DSE –F25 Plant Biochemistry and Molecular Biology	CO1. Understand the properties of monosaccharaides, oligosaccharides and polysaccharides CO 2. Define lipid metabolism in plants and significance of lipids CO3. Analyze of properties of saturated fatty acids CO4. To know protein biosynthesis in prokaryotes and eukaryotes
14		**Paper- XIV** DSE –F26 Bioinformatics, Biostatistics and Economic Botany	CO1. With the working knowledge of the practical and theoretical concepts of bioinformatics CO2. Students are aware about spices, beverages, fibers cereals legumes and oil. CO3. Students will be learn to explore the regional diversity in food crops and other plants and their ethno botanical importance as well. CO4. To perform micro chemical test study various component
15		**Paper- XV** DSE –F27 Plant Biotechnology	CO1. Knowledge of plant biotechnology, protoplast culture and recombinant DNA technology. CO2. Understand the genetic engineering and plant tissue culture.

		and Paleobotany	CO3. Know the scope of paleobotany, ecological time scale, and various fossil genera. CO4. To study various fossil genera representing different fossil group
16		**Paper- XVI** DSE –F28 Bio fertilizers and Herbal Drug Technology	CO1. Understand basic knowledge of biofertilizers, herbal drugs technology. CO2. Students will be deeply understanding ecofriendly fertilizers CO3. Students become familiar with organic manures, herbal medicines, herbal cosmetics, phamacognocy. CO4. To learn methods of decomposition of biodegradable waste and convert