

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Botany

Curricular Relevance – Course Outcomes with Relevance to Local, Regional, Global needs

(2018-19 to 2023-24)

Sr. No.	Name of the Course	Course Code	Year of Introduction	Cos with relevance to local/regional needs	Cos with relevance to national needs	Cos with relevance to global needs
B.Sc. Botany (Newly Introduced between 2018-19 and 2022-23)						
1	Biodiversity in Cryptogams and Gymnosperms	DSC-1007A	2018-19	CO1: Provides basic awareness about diversity of organism from Cryptogams and Gymnosperms		
2	Plant Ecology and Taxonomy	DSC1007B	2018-19	CO2: Understand and systematic ecology and economic importance of plants in everyday life.		
3	Taxonomy, Embryology	DSC-1007C1	2019-20		CO1: Understand the nomenclature, classification and taxonomy in relation to evolution and adaptation.	
4	Plant Physiology	DSC-1007C2	2019-20	CO1: Create awareness of important biomolecules and various physiological processes in plant life.		
5	Plant Anatomy	DSC-1007D1	2019-20		CO3: To understand the structural adaptations of plants with respect to diverse environmental conditions.	



6	Plant Metabolism	DSC-1007D2	2019-20	CO1: Helps to understand various metabolic processes in plants and the biomolecules involved in this processes.		
7	General Agriculture	DSC-1012C 2 Sec – I	2019-20	CO1: To know about basics of farming and agriculture.	CO3: Create entrepreneurial opportunity in plant sciences.	
8	Plant Pathology	DSC-1012C 2 Sec – II	2019-20	CO1: To get the knowledge to protect the crops from losses due to diseases.	CO3: Assessment of losses caused by different diseases of economically important crops.	
9	Weed Science	DSC-1011 D 2 Sec – I	2019-20	CO2: To identify and establish effective weed management strategies in order to reduce detrimental effects of agricultural crops.		
10	Insect Pest	DSC-1011 D 2 Sec – II	2019-20	CO1: To get know about insect pest causing major crop losses in agriculture worldwide.		
11	Cytology and Research Technique in Life Sciences	DSE – 1007 E 1 Sec-I	2020-21	1. To know the details of microscopy- principles of light microscopy, Electron microscopy, (TEM &SEM), fluorescence microscopy.		
12	Microbiology , Plant Pathology and Biofertilizers	DSE – 1007 E 1 Sec- II	2020-21		5. To equip themselves with skills related to laboratory as well as industries based studies	



13	Plant Biochemistry and Stress Physiology	DSE – 1007 E 2 Sec- 1	2020-21	1. The properties of Monosaccharides, Oligosaccharides & Polysaccharides. About the significance of carbohydrates.		
14	Plant Systematics and Paleobotany	DSE – 1019 E 2 Sec – II	2020-21	CO3. To know the concept of systematic. The phylogeny of Angiosperms, a general account of origin of Angiosperms.	4. Trace the history of development of systems of classification of Angiospermic taxa.	
15	Technique of Life Science	SEC-E	2020-21	CO1. Students will be familiar with various instrument & techniques used in labs.	3. Students will get to know plant products used in agriculture & organic farming	
16	Genetics and Plant Breeding	DSE – 1007 F 1 Sec – I	2020-21	CO3: Understand the pattern of inheritance of various characters and the role of genetic variation in a population.		
17	Biostatistics, Economic Botany and Ethnobotany	DSE – 1007 F 1 Sec – II	2020-21	CO3: Design and execute experiments in the field of plant science.		
18	Molecular Biology and Biotechnology	DSE – 1007 F 2 Sec – I	2020-21	1. The scope and importance of molecular biology.		
19	Horticulture, Forestry and Herbal Technology	DSE – 1007 F 2 Sec - II	2020-21		7. How to manage a good nursery. About principles of gardening. About landscape designing.	



20	Techniques in Plant Diversity and Crop Improvement	SEC-F	2020-21	1 Students will be familiar with identification, classification & nomenclature of plants.	2 Students will be familiar with conservation of useful & endangered plants.	4 Students will get employment opportunities by studying different horticultural techniques.
21	Basic in Botany	DSC03BOT11	2023-24	CO2: To understand unique and general features of algae, fungi, bryophytes, pteridophytes and gymnosperm.		
22	Plant Morphology	DSC03BOT12	2023-24	CO4: Understand the morphology and development of different plant parts.	CO2: Acquire basic knowledge required for understanding plant functioning.	CO2: Acquire basic knowledge required for understanding plant functioning.
23	Basic in Botany	MIN03BOT11	2023-24	CO1: Develop basic skills to study botany in details.		CO4: Acquaint the knowledge regarding importance of plants.
24	Plant Morphology	MIN03BOT12	2023-24	CO1: To understand general organization of plant body.		
25	Agri-Based Microenterprises - I	OEC03BOT11	2023-24	CO3: Generate basic awareness about entrepreneurial skills in plant sciences.		
26	Agri Based Microenterprises - II	OEC03BOT12	2023-24	CO2: To create entrepreneurial opportunities in plant sciences.		
27	Introduction to Ayurveda	IKS03GEN11	2023-24	CO2: To connect people and their health to the basic elements in the universe.		



28	Reproductive Botany	DSC03BOT21	2023-24	CO3: Understand the development of reproductive parts.	CO4: Get and insight into be the fruit and seed development.	-
29	Diversity and conservation of plants	DSC03BOT22	2023-24	CO3: To generate interest among the students about plant conservation.		
30	Reproductive Botany	MIN03BOT21	2023-24	CO2: Impart basic knowledge of pollination and fertilization in plants.		
31	Diversity and conservation of plants	MIN03BOT22	2023-24	CO1: To understand outline of different classification system.	CO4: Make the student aware about the extent of the total biodiversity and the importance of their Conservation.	
32	Herbal Technology - I	OEC03BOT21	2023-24	CO1: Acquire knowledge regarding various methods of propagation of horticultural plants.		
33	Herbal Technology - II	OEC03BOT22	2023-24		CO2: To know various plants as a source of therapeutic agents.	
34	Basic Tools of Life Sciences	SEC03BOT29	2023-24	CO1: To familiarize with various instruments and techniques used in laboratory		



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HEAD
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