

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Botany

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

(Year 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 -I						
1	Basic in Botany	DSC03BOT11	2023-24	CO2: To understand unique and general features of algae, fungi, bryophytes, pteridophytes and gymnosperm.		
2	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.
3	Basic in Botany	MIN03BOT11	2023-24	CO1: Develop basic skills to study botany in details.		CO4: Acquaint the knowledge regarding importance of plants.
4	Plant Morphology	MIN03BOT12	2023-24	CO1: To understand general organization of plant body.		
5	Agri-Based Microenterprises - I	OECC03BOT11	2023-24	CO3: Generate basic awareness about entrepreneurial skills in plant sciences.		



6	Agri-Based Microenterprises – II	OEC03BOT12	2023-24	CO2: To create entrepreneurial opportunities in plant sciences.	
7	Introduction to Ayurveda	IKS03GEN11	2023-24	CO2: To connect people and their health to the basic elements in the universe.	
8	Reproductive Botany	DSC03BOT21	2023-24	CO3: Understand the development of reproductive parts. CO4: Get and insight into be the fruit and seed development.	
9	Diversity and conservation of plants	DSC03BOT22	2023-24	CO3: To generate interest among the students about plant conservation.	
10	Reproductive Botany	MIN03BOT21	2023-24	CO2: Impart basic knowledge of pollination and fertilization in plants.	
11	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.	
12	Herbal Technology - I	OEC03BOT21	2023-24	CO1: Acquire knowledge regarding various methods of propagation of horticultural plants.	
13	Herbal Technology - II	OEC03BOT22	2023-24	CO2: To know various plants as a source of therapeutic agents.	
14	Basic Tools of Life Sciences	SEC03BOT29	2023-24	CO1: To familiarize with various instruments and techniques used in laboratory	



B.Sc. Botany -III

15	Cytology and Research Technique in Life Sciences	DSE – 1007 E 1 Sec-1	2023-24	CO1: To know the details of microscopy- principles of light microscopy, Electron microscopy, (TEM&SEM), Fluorescence microscopy.		
16	Microbiology , Plant Pathology and Biofertilizers	DSE – 1007 E 1 Sec- II	2023-24		CO4: To equip themselves with skills related to laboratory as well as industries based studies	
17	Plant Biochemistry and Stress Physiology	DSE – 1007 E 2 Sec- 1	2023-24	CO1: Understand the properties and classification of carbohydrates and proteins.		
18	Plant Systematics and Paleobotany	DSE – 1019 E 2 Sec – II	2023-24	CO1: To know the concept of systematic. CO2: To Know the phylogeny of Angiosperms, a general account of origin of Angiosperms.	CO3: Trace the history of development of systems of classification emphasising Angiospermic taxa.	
19	Technique of Life Science	SEC-E	2023-24	CO1.Students will be familiar with various instrument & techniques used in labs.	CO3: Students will get to know plant products used in agriculture & organic farming	
20	Genetics and Plant Breeding	DSE – 1007 F 1 Sec – I	2023-24	CO3:Understand the phenomenon of linkage and crossing over.		



21	Biostatistics, Economic Botany and Ethnobotany	DSE – 1007 F 1 Sec – II	2023-24	CO3: To know the role of plants in human welfare.		
22	Molecular Biology and Biotechnology	DSE – 1007 F 2 Sec – I	2023-24	CO1: The scope and importance of molecular biology.		
23.	Horticulture, Forestry and Herbal Technology	DSE – 1007 F 2 Sec - II	2023-24	CO3: Gain the basic knowledge of forestry and its products.	CO2: How to manage a good nursery. About principles of gardening.	



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Content with Cross-cutting Issues (2023-24)

Sr. No	Name of the Course	Course Code	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals	NEP – 2020 (truth (satya), righteous conduct (dharma), peace (shanti), love (prem), nonviolence (ahimsa), scientific temper, citizenship values, life-skills; lessons in seva/service and participation in community service education)
BSc III Botany									
1	Cytology and Research Technique in Life Sciences	DSE – 1007 E 1 Sec - I	2023-24	Scientific Management					
2	Microbiology, Plant	DSE – 1007 E 1 Sec - II	2023-24	Scientific Management			Sustainability		



	Pathology and Biofertilizers								
3	Plant Systematics and Paleobotany	DSE – 1007 E 2 Sec – II	2023-24					Environmental awareness	
4	Technique of Life Science	SEC-E	2023-24	Scientific Management					
5	Genetics and Plant Breeding	DSE – 1007 F 1 Sec – I	2023-24	Scientific Management					
6	Biostatistics, Economic Botany and Ethnobotany	DSE – 1007 F 1 Sec – II	2023-24				Sustainability		
7	Molecular Biology and Biotechnology	DSE – 1007 F 2 Sec – I	2023-24	Scientific Management					
8	Horticulture, Forestry and Herbal Technology	DSE – 1007 F 2 Sec - II	2023-24				Sustainability		
9	Technique in Plant Diversity and Crop Improvement	SEC-F	2023-24	Scientific Management					
BSc. I Botany									
10	Basics in Botany	DSC03BOT11	2023-24				Environmental awareness		
11	Plant Morphology	DSC03BOT12	2023-24						



12	Basics in Botany	MIN03BOT11	2023-24				Environmental awareness		
13	Plant Morphology	MIN03BOT11	2023-24						
14	Agri Based Microenterpris es - I	OEC03BOT11	2023-24			Entrepreneurial Management	Sustainability	Sustainable agriculture	
15	Agri Based Microenterpris es - II	OEC03BOT12	2023-24			Entrepreneurial Management	Sustainability		
16	Introduction to Ayurveda	IKS03BOT11	2023-24			Health Awareness		Community Health and Mental Health	
17	Reproductive Botany	DSC03BOT21	2023-24						
18	Diversity and Conservation of Plants	DSC03BOT22	2023-24				Environmental awareness	Conservation of plants	
19	Reproductive Botany	MIN03BOT21	2023-24						
20	Diversity and Conservation of Plants	MIN03BOT22	2023-24				Biodiversity	Biodiversity and its Conservation	
21	Herbal Technology - I	OEL03BOT21	2023-24			Nutrition and health	Sustainability	Community Health and Mental Health	
22	Herbal Technology - II	OEL03BOT22	2023-24			Public health and hygiene	Sustainability	Community Health and Mental Health	



23	Basic Tools of Life Sciences	SEC03BOT29	2023-24	Laboratory safety and units of measurement					
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Dr. R. R. Kumbhar

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Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Botany

Content with Focus on Employability, Entrepreneurship, Skill Development

(2023-24)

Sr. No.	Name of the Course	Course Code	Year of Introduction	Content with focus on employability	Content with focus on entrepreneurship	Content with focus on skill development
B.Sc. III Botany						
1	Cytology and Research Technique in Life Sciences	DSE – 1007 E I Sec-I	2023-24	Explain different techniques of life sciences.	Analyse the different technique of life sciences.	Understand different techniques of life sciences.
2	Microbiology , Plant Pathology and Biofertilizers	DSE – 1007 E I Sec- II	2023-24	Explain different type of microorganisms.	Know the different diseases of plant.	Know the Microorganisms responsible for disease development.
3	Plant Biochemistry and Stress Physiology	DSE – 1007 E 2 Sec- I	2023-24	Explain different type of metabolic process of plants.		Understand the plant physiology.
4	Plant Systematics and Paleobotany	DSE – 1019 E 2 Sec – II	2023-24	Apply the basic method for plant identification.		Understand the basic in paleobotany.
5	Technique of Life Science	SEC-E	2023-24	Analyze the different technique in plant study.	Know the different technique of life science.	Understand the technique of life science.



6	Genetics and Plant Breeding	DSE – 1007 F 1 Sec – I	2023-24		Analyze the plant statically.	Know the technique of plant breeding.	Understand the basics in genetics.	
7	Biostatistics, Economic Botany and Ethnobotany	DSE – 1007 F 1 Sec – II	2023-24		Analyze the plant statically.		Understand the economic importance of plant.	
8	Molecular Biology and Biotechnology	DSE – 1007 F 2 Sec – I	2023-24		Analyze different technique of biotechnology.	Know the technique of molecular biology.	Understand the concept of biotechnology.	
9	Horticulture, Forestry and Herbal Technology	DSE – 1007 F 2 Sec - II	2023-24			Know the technique of herbal technology.	Understand the horticulture science.	
10	Techniques in Plant Diversity and Crop Improvement	SEC-F	2023-24		Analyze different technique in plant diversity.	Know the technique used in crop improvement.	Understand the plant diversity.	
B.Sc. I Botany								
11	Basic in Botany	DSC03BOT11 & MIN03BOT11	2023-24		Apply basic knowledge for production of different products for human welfare.		Develop basic skills to study botany in details.	
12	Plant Morphology	DSC03BOT12 & MIN03BOT12	2023-24				Apply their knowledge to identify the different plant parts.	



13	Indian Knowledge System	IKS03GEC11	2023-24	Apply their knowledge to develop different ayurvedic product.	Apply their knowledge to study medicinal importance of plants.
14	Agri Based Microenterprises-I	OEC03PLP11	2023-24	Apply their knowledge to develop different organic product.	
15	Agri Based Microenterprises-II	OEC03PLP12	2023-24	Apply their knowledge to start agri business and agri tourism.	Apply their knowledge in disease management.
16	Reproductive Botany	DSC03BOT21 & MIN03BOT21	2023-24		Apply their knowledge for fruit production in plants.
17	Diversity and conservation of plants	DSC03BOT22 & MIN03BOT22	2023-24	Apply their knowledge in nursery development.	Apply their knowledge for conservation of plants.
18	Herbal Technology - I	OEC03PLP21	2023-24	Apply their knowledge for cultivation of medicinal plants.	
19	Herbal Technology - II	OEC03PLP22	2023-24	Apply their knowledge for preparing herbal garden.	Apply their knowledge for preparing herbal garden.



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