
 "Education for Knowledge, Science, and Culture"
- Shikshanmaharshi Dr. Bapuji Salunkhe
Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur
(Autonomous)


KOLHAPUR (AUTONOMOUS)

Department of Botany

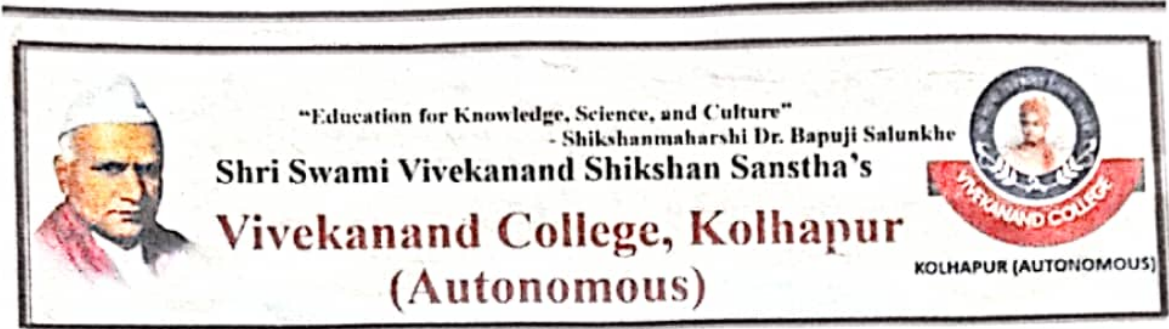
Syllabus Completion Report

2022-2023

Syllabus Completion Report (2022-23)

Department of Botany





Department of Botany
Syllabus Completion Report

2022-2023

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Dangat
Head
Department of Botany
Department of Botany
Vivekanand College



P. B. Shelar
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Kolhapur.

Syllabus Completion Report (2022-23)

Department of Botany

VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: Ist

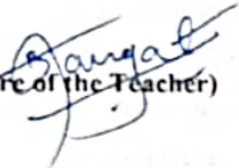
Name of the Teacher: Dr. Bhaurav Tukaram Dangat

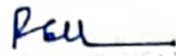
Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Remarks
B.Sc. I	Botany	Unit.2: Algae and Fungi	i) General Characters, Classification (As per G. M. Smith) up to class with characters and suitable example. ii) Economic importance. iii) Morphology and Life Cycle (Excluding developmental stages) of a) Cyanophyceae- <i>Nostoc</i> , b) Chlorophyceae- <i>Spirogyra</i> iv) Diatoms Practical's	Completed
B.Sc. II	Botany	Unit 2: "Pollination and Fertilization	2b. Fertilization: Entry of pollen tube, double fertilization and triple fusion. Significance of double fertilization. 2c: Structure and development of embryo in Monocotyledons 2c: Structure and development of embryo in Monocotyledons. 2d: Structure and development of embryo in Dicotyledons. 2e: Development of endosperm, Types of endosperm- Nuclear, Helobial and Cellular. 2f: Apomixes Practical's	Completed



B.Sc. III		Unit: II System of Classification	2a: Phylogeny of Angiosperms, The general account of origin of Aniosperms(with reference to Gnetalean theory) 2b: Classification system of Takhtajan, Brief reference of Angiosperm Phylogeny Group (APG-III) classification (2009) 2c: Ranks of IUCN and methods of Conservation. Practical's	Completed
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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: Ist

Name of the Teacher: Dr. Bhaurav Tukaram Dangat

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Remarks
B.Sc. I	Botany	Unit.2: Algae and Fungi	i) General Characters, Classification (As per G. M. Smith) up to class with characters and suitable example. ii) Economic importance. iii) Morphology and Life Cycle (Excluding developmental stages) of a) Cyanophyceae- <i>Nostoc</i> , b) Chlorophyceae- <i>Spirogyra</i> iv) Diatoms Practical's	Completed
B.Sc. II	Botany	Unit 2: "Pollination and Fertilization	2b. Fertilization: Entry of pollen tube, double fertilization and triple fusion. Significance of double fertilization. 2c: Structure and development of embryo in Monocotyledons 2c: Structure and development of embryo in Monocotyledons. 2d: Structure and development of embryo in Dicotyledons. 2e: Development of endosperm, Types of endosperm- Nuclear, Helobial and Cellular. 2f: Apomixes Practical's	Completed



B.Sc. III		Unit: II System of Classification	2a: Phylogeny of Angiosperms, The general account of origin of Aniosperms(with reference to Gnetalean theory) 2b: Classification system of Takhtajan, Brief reference of Angiosperm Phylogeny Group (APG-III) classification (2009) 2c: Ranks of IUCN and methods of Conservation. Practical's	Completed
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 Vivekanand College
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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: IInd

Name of the Teacher: Dr. Bhaurav Tukaram Dangat

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Remarks
B.Sc. I	Botany	Unit I. Angiosperms Taxonomy	<p>1a: Salient features of Angiosperms.</p> <p>1b: Taxonomy – Introduction, Function (Identification, Nomenclature and Classification), Importance.</p> <p>1c: Salient features of International Code of Botanical Nomenclature (ICBN).</p> <p>1d: Bentham and Hooker's System of classification with its Merits and demerits.</p> <p>1e: Morphological, floral, distinguishing characters and economic importance of following families.</p> <p>i. Malvaceae ii. Solanaceae iii. Nyctaginaceae iv. Amaryllidaceae</p> <p>Practicals</p>	Completed
B.Sc. II	Botany	Unit: II Tissue and Tissue System	<p>2a. Meristem:</p> <p>a) Introduction, Characteristics and Classification of meristems based on position</p> <p>b) Theories of structural development-</p> <p>i) Apical cell theory ii) Histogen theory</p>	Completed



			iii) Tunica Corpus theory. 2b. Permanent tissue: i) Simple tissue- Parenchyma, Collenchyma and Sclerenchyma ii) Complex tissue: Xylem and Phloem Practicals	
B.Sc. II	PP	Section : I Unit II. "Weed Science"	Study of following weeds with reference to a) Gross morphology b) Reproduction c) Ecology d) Dispersal e) Management 1. <i>Argemone Mexicana</i> 2. <i>Portulaca oleracea</i> 3. <i>Parthenium hysterophorus</i> 4. <i>Eupatorium</i> species 5. <i>Alternanthera sessilis</i> 6. <i>Amaranthus spinosus</i> 7. <i>Cassia tora</i> 8. <i>Cyperus rotundus</i> 9. <i>Cynodon dactylon</i> Practicals	Completed
B.Sc. III	Botany	Section II Unit : 2 Gardening and Ornamental Plants	2a: Gardening Definition, Objective, Types of Gardening, Importance and Landscape Garden. 2b: Ornamental plants: Herbs, Shrubs, Trees, Indoor plants, Lawn and Climber Practicals	Completed

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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: IInd

Name of the Teacher: Dr. Bhaurav Tukaram Dangat

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Remarks
B.Sc. I	Botany	Unit I. Angiosperms Taxonomy	<p>1a: Salient features of Angiosperms.</p> <p>1b: Taxonomy – Introduction, Function (Identification, Nomenclature and Classification), Importance.</p> <p>1c: Salient features of International Code of Botanical Nomenclature (ICBN).</p> <p>1d: Bentham and Hooker's System of classification with its Merits and demerits.</p> <p>1e: Morphological, floral, distinguishing characters and economic importance of following families.</p> <p>i. Malvaceae ii. Solanaceae iii. Nyctaginaceae iv. Amaryllidaceae</p> <p>Practicals</p>	Completed
B.Sc. II	Botany	Unit: II Tissue and Tissue System	<p>2a. Meristem:</p> <p>a) Introduction, Characteristics and Classification of meristems based on position</p> <p>b) Theories of structural development-</p> <p>i) Apical cell theory ii) Histogen theory</p>	Completed



			iii) Tunica Corpus theory. 2b. Permanent tissue: i) Simple tissue- Parenchyma, Collenchyma and Sclerenchyma ii) Complex tissue: Xylem and Phloem Practicals	
B.Sc. II	PP	Section : I Unit II. “Weed Science”	Study of following weeds with reference to a) Gross morphology b) Reproduction c) Ecology d) Dispersal e) Management 1. <i>Argemone Mexicana</i> 2. <i>Portulaca oleracea</i> 3. <i>Parthenium hysterophorus</i> 4. <i>Eupatorium</i> species 5. <i>Alternanthera sessilis</i> 6. <i>Amaranthus spinosus</i> 7. <i>Cassia tora</i> 8. <i>Cyperus rotundus</i> 9. <i>Cynodon dactylon</i> Practicals	Completed
B.Sc. III	Botany	Section II Unit : 2 Gardening and Ornamental Plants	2a: Gardening Definition, Objective, Types of Gardening, Importance and Landscape Garden. 2b: Ornamental plants: Herbs, Shrubs, Trees, Indoor plants, Lawn and Climber Practicals	Completed

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VIVEKANAND COLLEGE, KOLHAPUR.
STATEMENT OF SYLLABUS COVERED

Year : 2022 - 2023

Term : Ist / IInd

Name of the Teacher : Dr. Abhijeet Rajaram Kasarkar

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. I	Botany	Paper - I section - I Unit No. 1 - Microbes Unit No 2 - 2c - Lichen	Paper - I section - I Unit No 1 - Microbes Unit No 2 - 2c - Lichen	-	-
B.Sc. II	Botany	Paper III section - I Unit III - Taxonomic Literature Unit IV - Amaranthaceae, Orchidaceae, Liliaceae	Paper III section - I Unit III - Taxonomic Literature Unit IV - Amaranthaceae, Orchidaceae, Liliaceae	-	-
B.Sc. II	Plant Protection	Paper - I section - I Unit - IV - Methods of Plant Protection part - II	Paper - I section - I Unit IV - Methods of Plant Protection part - II	-	-
	Practical	Crops, Weeds, Herbicides Sucrose percentage Nematicides, Rodenticides	Crops, Weeds, Herbicide, Nematicides	Sucrose percentage Soil pH, EC, and Herbarium	-



(2)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
		Soil pH, EC, Herbarium			
BSc. III	Botany	Paper No-V sect-I Unit - 2 - cell organelle	Paper - No-V sec I Unit 2- cell organelle	-	-
	Practical	Practical - II study of Plant-Family Study of Genus and species Herbarium, Pollen grains Types of fossils	Practical - II study of Plant-family study of Genus and species	Herbarium, Pollen grains Types of fossils	

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Dr. Abhijeet R. Kasarkar

VIVEKANAND COLLEGE, KOLHAPUR. (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: IInd

Name of the Teacher: Dr. AbhijeetRajaramKasarkar Department: Botany

Class	Subject	SyllabusAssigned	Syllabus Covered	Remarks
B.Sc. I	Botany	"Angiosperms Taxonomy" Section- I Unit .I 1a. Salient Features 1b. Taxonomy – Importance and Function 1c. Salient Features of ICBN 1d. Bentham and Hookers System of classification 1e. Study of Plant Families	"Angiosperms Taxonomy" Section- I Unit .I 1a. Salient Features 1b. Taxonomy – Importance and Function 1c. Salient Features of ICBN 1d. Bentham and Hookers System of classification 1e. Study of Plant Families	Completed
B.Sc. II	Botany	"Plant Metabolism" Section- I Unit: IV. "Seed Dormancy and Germination"	"Plant Metabolism" Section- I Unit: IV. "Seed Dormancy and Germination"	Completed
B.Sc. II	Plant Protection	"Weed Science" Section- I Unit: IV. "Non Insect Pest and House Hold Pest"	"Weed Science" Section- I Unit: IV. "Non Insect Pest and House Hold Pest"	Completed
B.Sc. III	Botany	"Horticulture , Forestry and Herbal Technology" Section II Unit : I Horticulture	"Horticulture , Forestry and Herbal Technology" Section II Unit : I Horticulture	Completed
B.Sc. II	Plant Protection	Plant Protection Practicals	As per curriculum	All Practicals covered



B.Sc. III	Botany	Botany Practical - II	As per curriculum	All Practi cover
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Head
Depart: Botany
Viveka College
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VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022 - 2023

Term : Ist / Ist

Name of the Teacher : Dr. Jyoti Mahadev Gonsule

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc-I	Botany Practical of Batch F14 and F8	Bacterial Types, algae, fungi, Bryophytes, Pteridophytes, Gymnosperms, Angiosperms, Ecology	All practicals of semester-I completed	-	-
B.Sc-II	Plant- Protection Theory	DSC-1012 C ₂ Sec-I - General Agriculture Unit - III Methods of Plant Protection Part-I	Unit-III Methods of Plant Protection part-I	-	-
B.Sc-II	Botany Practical of Batch 513	Taxonomy, Embryology and Plant physiology of Batch 513	Practicals of Semester I completed	-	-



(2)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
SC-III	Botany	DSC 7 E1 sec-II Microbiology, Plant pathology and biofertilizers, Unit-I Microbiology	Unit-I Microbiology	-	-
		DSC 7 E2 sec-II Plant systematics and Paleobotany family - Apiaceae and Rubiaceae	family - Apiaceae, and Rubiaceae	-	-

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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: IInd

Name of the Teacher: Dr. Jyoti Mahadev Gorule

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B. Sc. I	Botany	Unit. I. Ecological factors and Plant communities (15 hrs)	1a. Introduction and definition of Ecology 1b. Ecological factors: i. Edaphic factors- Soil: Origin and formation. Composition- soil water, soil air, soil temperature, soil organic matter and soil microbes. ii. Climatic factors- Light , Temperature, Precipitation , atmospheric humidity and Rainfall		Completed
B.Sc. II	Plant Protection	Unit. II. Study of insect pests	2a: Study of following insect pests of different crops with reference to – a)Scientific name b) Marks of identification c) Life cycle d) Nature of damage e) Management practices Maize - Fall army worm of Maize Sugarcane – White grub Gram – Pod borer Mango – Hoppers Brinjal – Top shoot borer Rose – Bud borer 2b: Stored grain pests and their management. i) Rice weevil ii) Pulse beetle		Completed



B.Sc. III	Botany	Paper VII "Biostatistics, Economic Botany and Ethnobotany" Unit III Economic Botany II	3a: Beverages- Tea and Coffee 3b: Fiber Yielding Plants - Cotton and Hibiscus canabinis 3c: Oil yielding – Pongamia pinnata and Sunflower 3d: Dye : Bixa and Lawsonia	Completed
		Paper VIII "Horticulture, Forestry and Herbal Technology" Unit III Forestry	3a: Introduction, Forest types of India 3b: Wild life and Biosphere reserves 3c: Social and Agricultural Forestry 3d: Forest research education and Training institutions 3e: Forest Acts 3f: Different Plant as a forest products	Completed
B.Sc. I	Botany	Botany Practical	As per curriculum	All Practicals covered
B.Sc. II	Botany	Botany Practical - I	As per curriculum	All Practicals covered

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Department of Botany
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VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022-2023

Term : Ist / IInd

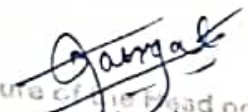
Name of the Teacher : Dr. Annapurna. R. Aliker

Department : Botany

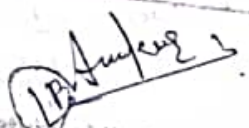
Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. II	Botany	Section-II-plant physiology Unit - III Photosynthesis Introduction - Ultrastructure of photosynthetic apparatus, Mechanism of photosynthesis Light and Dark reactions, significance of photosynthesis.	Syllabus allotted to this semester completed	-	-
B.Sc. III	Botany.	Section-I "Plant Biochemistry and stress Physiology."			



Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
		Unit - II "Lipid metabolism and Fatty acid metabolism" Introduction and Classification of lipids, Properties of fatty acid, Saturated and unsaturated fatty acids, Beta Oxidation, Gluconeogenesis, Significance of lipids.	(2) Syllabus allotted to this Semester is completed.	—	—


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 Head
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VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022 - 2023

Term : Ist / IInd

Name of the Teacher : Dr. Annapurna. R. Alurkar.

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc-II	Botany	Practicals.			
		Practical - I Taxonomy, Embryology and Plant Physiology	Practicals allotted to this semester completed.	—	—
		① Batch No - S10, S11, ② Batch No S12			
		Practical - II "Plant Anatomy and Plant Metabolism."	Practicals allotted to this semester completed.		
		① Batch No - S8, S9 ② Batch No - S10, S11, S12.			



VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: Ist / IInd

Name of the Teacher: Dr. Annapurna Ram Alvikar

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. I (Sem. I)	Botany	Nil	Nil	Nil	--

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Department of Botany
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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: Ist / IInd

Name of the Teacher: Dr. Annapurna Ram Alvikar

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. I (Sem. II)	Botany	Section-I: "Plant Ecology" 'Unit I: Ecological factors and Plant Communities Introduction, Definition of Ecology Ecological Factors Edaphic Factors Climatic Factors Ecological adaptations Soil Pollution Ecological succession Ecological Interaction	All syllabus covered	Nil	--

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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: Ist / IInd

Name of the Teacher: Dr. Annapurna Ram Alvikar

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. II Sem. III)	Botany	Section-I: Unit 3: 'Photosynthesis'	All syllabus covered	Nil	--
		Introduction Ultrastructure of Photosynthetic apparatus Photosynthetic pigments- Chlorophylls, Carotenoids and Phycobilins Light reaction - Cyclic and Noncyclic Dark reaction- C ₃ cycle CAM Pathway			
		Practicals	All Practicals covered	Nil	--

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Department of Botany
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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: Ist / IInd

Name of the Teacher: Dr. Annapurna Ram Alvikar

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. II (Sem. IV)	Botany	Section-II: Unit 1: 'Enzymes'	All syllabus covered	Nil	--
		Introduction, Chemical nature and Properties of enzymes, Classification Nomenclature of Enzymes Mechanism of enzymes action-Lock and Key hypothesis Factors affecting on enzyme activity- Allosteric modification and Feedback inhibition			
		Practicals			

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26.4.23
(Signature of Head of Dept.)
Head
Department of Botany
Vivekanand College
Kolhapur



Dr. Annapurna Ram Alvikar
(Signature of Teacher)

VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: Ist / IInd

Name of the Teacher: Dr. Annapurna Ram Alvikar

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. III (Sem. VI)	Botany	Section-I: Unit 2: 'Recombinant DNA Technology' Introduction and Principle Enzymes involved in recombinant DNA technology, Cloning vectors- (Plasmid, Bacteriophage and Cosmids) Gene amplification: PCR techniques	All syllabus covered	Nil	--

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Department of Botany
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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: Ist / IInd

Name of the Teacher: Dr. Annapurna Ram Alvikar

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. III Sem. V)	Botany	Section-I: Unit 2: 'Lipid Metabolism' Introduction, and classification of lipids Properties of Fatty acids – Steric and Palmatic acid and Linolenic acid. Beta oxidation Glyconeogenesis Significance of Lipids.	All syllabus covered	Nil	--

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Department of Botany
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Kolhapur

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VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022-2023.

Term : 1st / Nnd Semester - I.

Name of the Teacher : Dr. Sarika Dipak Patil.

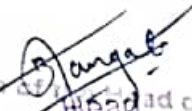
Department : Botany.

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. II	Botany	Section II Unit 4. 4a to 4g	All syllabus alloted has been completed	—	
B.Sc. II	Plant Protection	Section II Unit III	All syllabus alloted has been completed	—	
B.Sc. III	Botany	Section I Unit III	All syllabus alloted has been completed	—	
B.Sc. I	Botany	Practicals	Has been started during term I.	—	



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Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc.-II	Botany	Practical - II	Practicals of Semester II has been completed.	—	

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 Kolhapur




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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: IInd

Name of the Teacher: Dr.Sarika Dipak Patil. Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. II	Botany	“Plant Anatomy” Unit: IV. Plant Adaptations	4a. Mangrove Biology 4b. Xeric Adaptations 4c. Carnivorous Plants 4d. Epiphytic and Parasitic Plant	-	Completed
B.Sc. II	Plant Protection	“Weed Science and Insect Pest” Section I Unit : III Methods of Weeds Management	3a.Mechanical Methods 3b. Biological Methods 3c.Chemical Method 3d. Study of Weedicides Glyphosat,Atrazin,Oxiflurofen,2,4 D	-	Completed



B.Sc. III	Botany	“Genetics and Plant breeding” Section I Unit : 1 Heredity.	2a: Introduction, Terminologies, Laws of inheritance 2b: Multiple Allelism.	-	Completed
B.Sc. I		Botany Practicals	As per curriculum	-	All Practicals covered
B.Sc. II		Botany Practical - II	As per curriculum	-	All Practicals covered



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Head
Department of Botany
Vivekanand College
Kolhapur



VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED.

Year : 2022 - 2023

Term : Ist / IInd


Name of the Teacher : Dr. Priya Digambar Patil

Department : Botany

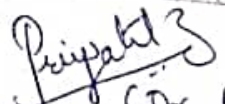
Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B. Sc. II	Plant Protection	DSC 1007 DI Section - I (Sem. III) Unit 1: Crop diseases Introduction, importance of plant pathology, Terminologies, concept of disease, classification of diseases (1a to 1d)	All assigned syllabus is covered	—	
		Unit II: Mechanism of plant infection - fungi, bacteria & viruses - Factors affecting the infection	All assigned syllabus is covered	—	



Class	Subject	Syllabus Assigned	(2) Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. II	Botany	Practicals - I "Taxonomy, Embryology and plant physiology."	Practicals assigned to this semester are completed		
B.Sc. I	Botany	Practicals Batch - F7 Batch - F10	Practicals of Sem. I are completed		


 (Signature of the Head of Dept.)
 Head
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 Kolhapur




 (Dr. Priya D. Pa)
 (Signature of the Teacher)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
Sc. II	Botany	DSC-1007 C1 Section - I (Sem. III) <u>Unit 1: Organization of flower:</u> Flower as modified shoot, stru. of typical flower, typical stamen, microsporogenesis, development of male gametophyte, stru. of gynoecium, typical ovule, types of ovule, Megasporogenesis, development of female gametophyte, Embryo sac, types of embryo sac	All syllabus assigned is completed		

(Signature of the Head of Dept.)
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Head
14.12.22
Department of Botany
Vivekanand College
Kolhapur



[Signature]
(Dr. Priya D. P.)
(Signature of the Teacher)

VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022 - 2023

Term : Ist / IInd

Name of the Teacher : Dr. Priya Digambar Patil

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
Sc. III	Botany	DSC 1007 E1 Section I (sem. V) <u>Unit 1: Cell as a unit of life</u> Cell, cell theory, prokaryotic & eukaryotic cell, cell components, cell membrane & cell wall, Models of membrane, The fluidity of membranes, membrane proteins, permeability of P.M.	All syllabus assigned is completed	—	—



VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: Ist / IInd

Name of the Teacher: Dr. Priya Digambar Patil

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. III	Botany	Section I: Unit 3: Genetic Engineering	Introduction, Methods of gene transfer, Direct gene transfer, Agrobacterium mediated gene transfer, Transgenic plants (Bt cotton & Golden Rice) Applications of genetic transformation, Blotting techniques- Northern, Southern and DNA fingerprinting	All syllabus covered	
B.Sc. II	Plant Protection	Section II: Unit 1: Introduction to insect pests	Definition and losses caused by insect pests Causes for insects to assume pest status Classification of insect pest based on- a) Occurrence of pest b) Intensity of pest c) Level of infestation d) Food requirement	All syllabus covered	



		Unit 4: Recent trends in pest management	Introduction a) Attractants b) Repellents c) Antifeedants d) Pheromones e) Chemosterilants Precautionary measures used during pesticides	All syllabus covered
B.Sc. I	Botany	Unit 1: Ecological Factors and Plant communities	Ecological adaptations: Hydrophytes, Xerophytes. Ecological adaptations: Epiphytes and parasites. Ecological succession Ecological Interaction	All syllabus covered
B.Sc. I	Botany Practicals	As per curriculum		All Practicals covered
B.Sc.II	Botany Practical-I	As per curriculum		All Practicals covered
B.Sc.II	Botany Practical-II	As per curriculum		All Practicals covered

(Signature of Head of Dept.)

Head 26.4.22
Department of Botany
Vivekanand College
Kolhapur

(Signature of Teacher)

(Dr. Priya D. Patil)



VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022-2023

Term : Ist / 1st

Name of the Teacher : Dr. Lubtha Abhijeet Kagale

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B. Sc. III	Botany Sem-III DSC 7E	Section- I Unit- III Analytical techniques in plant sciences	Unit-III Analytical techniques in plant sciences		
B.Sc.II	Botany D.Dsc-7c section-1	Unit-IV Plant Families & Families of Angiosperm	Plant Families & Families of Angiosperm.		
B. Sc. II	Plant Protection DSC-1012C2	Section-II - Unit-1 Crop diseases 1. d - Symptoms 1. e - Kochs postulates	Unit-1 Crop diseases 1. d - Symptoms 1. d - Kochs postulates		



(2)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
	Unit - IV	Phytopathological Skills	Phytopathological Skills		
3.Sc. II	Botany	Practical - I	} this term Practicals completed		
	Botany	Practical - II			
3.Sc. II	Plant Protection	Practical - II	This term practical completed		

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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: IInd

Name of the Teacher: Dr. Lubdha Abhijeet Kagale

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. II	Plant Protection	<p>“Weed Science and Insect Pest”</p> <p>Unit : III</p> <p>DSC 1011 D2</p> <p>Management of Insect Pest</p>	<p>1a. Weeds- Principles of insect pest control</p> <p>1b. Characteristic of Insecticides based on</p> <p>i) Mode of entry</p> <p>ii) Mode of action</p> <p>iii) Chemical nature</p> <p>iv.: Plant origin insecticide</p> <p>d) Need of formulation</p> <p>e. Nature of formulation.</p> <p>1c. Utilization of entomopathogenic nematodes in IPM</p>		Completed
B.Sc. III	Botany	<p>“Biostatistics, Economic Botany and Ethnobotany”</p> <p>Paper VI</p> <p>DSC 1007 F1</p> <p>Section II</p> <p>Unit : 4</p> <p>Ethnobotany.</p> <p>Paper VI</p> <p>DSC 1007 F2</p>	<p>4a: Introduction, concept and scope</p> <p>4b: Ethnobotanical studies with reference to data collection, field work, Ancient literature, sacred groves, Archaeological findings</p> <p>4c: Role of ethnobotany in modern medicine- <i>Tribulus terrestris</i>, <i>Curcuma longa</i>, <i>Adathoda vasica</i>, <i>Tinospora cordifolia</i></p> <p>4a. Pharmacognosy- Definition and techniques</p>		Completed



		Horticulture, Forestry and Herbal technology Section II Unit IV Herbal Technology	4b. Phytochemicals- Alkaloids and Phenols 4c. Drug- Types and adulterations 4d. Scope of Pharmacognosy		
B.Sc. II		Plant protection Practical - II	As per curriculum		All Practicals covered
B.Sc. II		Botany Practical - I	As per curriculum		All Practicals covered
B.Sc. II		Botany Practical - II	As per curriculum		All Practicals covered

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Department of Botany
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Kolhapur



VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022 - 2023

Term : Ist / IInd

Name of the Teacher : DR. Ketaki Prakash Patil

Department : Botany.

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B. sc. I	Botany	Fungi chapter	All topic was points completed (100)	—	
B. sc. II	Plant Protection	organic Farming	All topic points (90) completed.	—	
B. sc. III	Botany	Carbohydrates	All topic points (90) completed	—	
B. sc. II	Botany Practical	Part - II	half practicals are completed	—	
B. sc. III	Botany Practical	Part - IV	half practicals are completed	—	



VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: IInd

Name of the Teacher: Dr. Ketaki Prakash Patil

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. III	Botany	“Molecular Biology and Biotechnology” Unit : 1 Genetic Material	<ol style="list-style-type: none"> 1. Nucleic Acid (DNA/ RNA) 2. Griffith and Avery’s transformation experiment Harshey chase bacteriophage experiment 3. DNA structure and types of DNA 4. DNA replication types of RNA 		Completed
B.Sc. II	Botany	“Plant Anatomy and Plant Metabolism” Unit: 3 Plant growth and development	<ol style="list-style-type: none"> 1. Definition and Phases of growth 2. Plant growth regulators: Auxin, Cytokinin, Gibberellins, Abscisic acid 3. Photoperiodism and floreign concept: LDP, SDP, DNP 4. Vernalization: Concept, site of vernalization and it’s significanes 		Completed



B.Sc. I	Botany	“Plant Ecology” Section II UnitII: Ecosystem and Phyto- geography	1. Ecosystem- Introduction, Composition and types 2. Terrestrial ecosystem Food chain 3. Food web Ecological pyramids 4. Phytogeographical regions of India		Completed
B.Sc. I		Botany Practicals	As per curriculum		All Practicals covered
B.Sc. III		Botany Practical - IV	As per curriculum		All Practicals covered

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VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

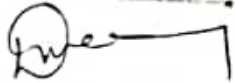
Year : 2022 - 2023

Term : Ist / IInd


Name of the Teacher : Dr. Mrunalini Nilesh Desai

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. II	Botany	Paper III Section - II Unit - II: Mineral Nutrition: (a) Introduction, criteria of essentiality. (b) Macro & Micronutrients (c) Mineral uptake (d) Role & deficiency disorders of (P, K, Ca, Mg) & (Fe, Mn, Zn, Br). (e) Effect of excess minerals on plant growth.	Syllabus allotted to this semester is completed.	—	—


(Dr. M. N. Desai)




Head
Department of Botany
Vivekanand College
Kolhapur

VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022-2023

Term : Ist / IInd

of the Teacher : Dr. Mounalini Nilesh Desai

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. II	Plant Protection	Paper - I section - I General Agriculture. Unit-I :- Introduction of agriculture & study of major crops. a. Introduction & importance b. Study of foll. crops. A. Cereal - Rice B. Oil seed crop - Soybean C. Pulse crop - Gram D. Cash crop - Sugar cane.	Syllabus allotted for this semester is completed.		

Dr. M. N. Desai
(Dr. M. N. Desai)



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VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022-2023

Term : Ist / IInd

Name of the Teacher : = Dr. Msuralini Nilesh Desai

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. III	Botany	Paper DSC 7 E I section - II Unit 2. Plant Pathology: a. Classification of plant diseases based on pathogen, crops & symptoms. b. Study of Mechanism of Infection in disease development (Biochemical changes) c. Role of Quarantine, significance of of plant pathology.	Syllabus allotted to this semester is completed.		



Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	
B.Sc. II	Botany	Practicals - I "Taxonomy, Embryology and plant physiology	Practicals assigned to this semester are completed.		
B.Sc. II	Botany	Practical - II Plant Anatomy & Plant Metabolism.	Practicals of Semester I are completed.		
B.Sc. I	Botany	Practicals	Practicals of Semester I are completed.		

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Department of Botany
Vivekanand College
Kolhapur



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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: IInd

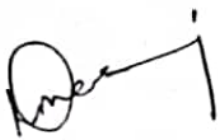
Name of the Teacher: Dr. Mrunalini Nilesh Desai

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. II	Botany	<p>“Plant Anatomy and Plant Metabolism”</p> <p>Unit : III.</p> <p>Primary and Secondary structure of plant body</p>	<p>3a. primary structure of Monocotyledon and Dicotyledon root, stem and leaf.</p> <p>3b. Normal secondary growth in Dicotyledon root and stem.</p> <p>3c. Anomalous secondary growth in Bignonia (Dicot) and Dracaena (Monocot) stem.</p> <p>3d. Periderm and Lenticel</p>		Completed
B.Sc. II	Plant Protection	<p>“Weed Science and Insect Pest”</p> <p>Unit : I</p> <p>Introduction of weeds</p>	<p>1a. Weeds- Definition, beneficial effect of weed</p> <p>1b. Characteristic of weed</p> <p>1c. Classification of weeds based on :</p> <p>a) Ontogeny, b) Ecology</p> <p>1d. Weed biology and Ecology</p> <p>1e. Study of parasitic, aquatic, poisonous and noxious weeds.</p>		Completed

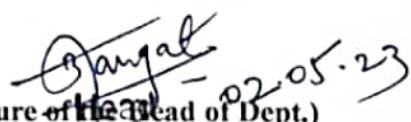


B.Sc. III	Botany	“Biostatistics, Economic Botany and Ethnobotany” Section II Unit : 2 Economic Botany.	2a: Study of following economical important plant with reference to origin, morphology, parts used and uses. 2b: Cereals: Jowar and Rice 2c: Legumes: Soybean and Vigna 2d: Vegetables: <i>Amaranthus</i> and Chilly 2e. Spices: Clove and Black pepper		Completed
B.Sc. I		Botany Practicals	As per curriculum		All Practicals covered
B.Sc. II		Botany Practical - I	As per curriculum		All Practicals covered
B.Sc. II		Botany Practical - II	As per curriculum		All Practicals covered



(Signature of the Teacher)

(Dr. Meenalini N. Desai)


(Signature of the Head of Dept.)
02.05.23
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Vivekanand College
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VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022-2023

Term : I / II

Name of the Teacher : Dr. Shital Bhagwan Koparde

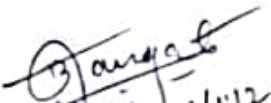
Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. I	Botany	semester I Paper - II " Bryophytes, Pteridophytes and Gymnosperms. Unit 1 1b. Pteridophytes * General characters, * classification, * Morphology, Anatomy and life cycle of <u>Selaginella</u> and <u>Pteris</u> * Heterospory and seed habit in pterido- phytes.	} All covered	-	

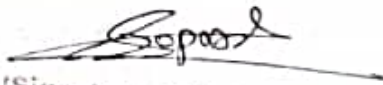


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Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc III	Botany	<p><u>Paper-</u> cytology and Research techniques in life science and microbiology, plant pathology and Biofertilizers - unit section - II unit - III study of plant Diseases. <u>Paper-</u> plant Biochemistry and stress physiology, plant systematics and paleobotany section II, Unit IV Paleobotany - Practical - B.Sc. I, II, III</p>	All covered	-	


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 Kolhapur




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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: Ist


Name of the Teacher: Dr. Shital B. Koparde

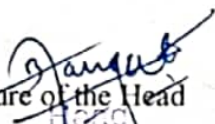
Department: Botany

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to covered	Remarks
B. Sc I	Botany	Paper II Unit 1b. Pteridophytes	General characters, Classification (as per G.M. Smith) upto class. A. Morphology, anatomy and life cycle (excluding developmental stages) of 1. Lycopsida- <i>Selaginella</i> 2. Pteropsida- <i>Pteris</i> B. Heterospory and seed habit in pteridophytes	Nil	Completed
B. Sc III	Botany	Paper DSC 7E 1 Section- II Unit- 3 Study of Plant Diseases	3a. Cereals- Rust of Wheat 3b. Cashcrop- Red rot of sugarcane 3c. Legume- Rust of Soybean, Mosaic of Bean 3d. Spices- Leaf spot of Turmeric 3e. Vegetables- White rust of <i>Amaranthus</i> 3f. Fruit- Leaf curl of Papaya	Nil	Completed



		<p>Unit 4 Paleobotany</p>	<p>4b. Study of following form genera with reference to systematic position, external morphology and affinities- <i>Lyginopteris, Enigmocarpon</i></p> <p>4c. Application of Paleobotany- Role of microfossils in oil and coal exploration</p>		
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Signature of the Teacher


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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED


Year: 2022-2023

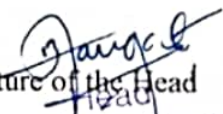
Term: IInd

Name of the Teacher: Dr. Shital B. Koparde

Department: Botany

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to covered	Remarks
B. Sc I	Botany	Paper IV Unit- 2 Morphology and modification of Angiosperms	2a. Morphology and modification of Roots 2b. Morphology and modification of Stem 2c. Morphology and modification of leaf	Nil	Completed
B. Sc III	Botany	Paper DSC 7G Section-I Unit-4 Plant breeding	4a. Introduction and objectives, plant genetic resources, centers of origin and domestication of crop plants 4b. Methods of crop improvement – methods of breeding Selection methods for self-pollinated, cross-pollinated and vegetatively propagated plants. Mutation breeding	Nil	Completed


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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

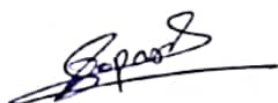
Year: 2022-2023

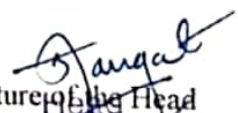
Term: Ist and IInd

Name of the Teacher: Dr. Shital B. Koparde

Department: Botany

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to covered	Remarks
B. Sc I	Botany	Practicals	All practicals are covered	Nil	Completed
B. Sc II	Botany	Practicals	All practicals are covered	Nil	Completed
B. Sc III	Botany	Practicals	All practicals are covered	Nil	Completed


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Kolhapur



VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022 - 2023

Term : Ist / IInd

Name of the Teacher : Dr. Priyanka Pravin Jadhav

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. I	Botany Sem I paper II	3a. Bryophytes General characters Adaptation to land habit, classification (AS per G. M. Smith) upto class, Alternation of generation, Economic importance. Morphology, Anatomy and life cycle of <u>Riccia</u> , <u>Anthoceros</u> .	All syllabus assigned is completed.		



Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc-III	Botany sem. IV Paper - DSC-7E	Unit - 4 Radiation biology 4a. Radioactive isotopes 4b. Effect of radiation on biological system 4c. Beneficial effect of radiation 4d. Autoradiography technique 4e. Geiger - Muller experiment and liquid scintillation counter. 4f. precautionary measures.	(2) All syllabus assigned is completed		

(Signature of Head of Dept.)

Head
Department of Botany
Vivekanand College
Kohapur



(Signature of the Teacher)

VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022-2023

Term : Ist / IInd

Name of the Teacher : Dr. Priyanka Pravin Jadhav

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. I	Botany Sem I Paper II	3a. Bryophytes General characters Adaption to land habit, classification (As per E.M. Smith) upto class, Alternation of generation, Economic Importance. Morphology, Anatomy and life cycle of <u>Riccia</u> , <u>Anthoceros</u> .	All syllabus assigned is completed.		



VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022-2023

Term : I / II

Name of the Teacher : Dr. Bhairu Nathaji Shinde Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. II	Botany Practical	Bacteria, Algae, fungi, Bryophyte, lichens,	Bacteria, Algae, fungi, Bryophyte, lichens	Ecology, Physiology, Taxonomy.	
B.Sc. II	Botany	Paper III. sect. II Unit -1. Plant water Relationship.	Paper III- sect. II Unit -1. Plant water Relationship.		
B.Sc. II	Botany Practical I	Stomata, Density, Transpiration, Deficiency symptoms, vegetative growth, Growth hormone	Stomata, Density, Transpiration, Deficiency symptoms, vegetative growth, Growth hormone.	Permeability, TAN.	
	Practical II	Types of tissue, Primary structure	Types of tissue primary, secondary		



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Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
3.Sc.III	Botany	of Root, stem in monocot, Dicot. Abnormal growth. enzyme activity Paper. DSC 7 E 1 sect. II, Unit. 4 Biofertilizer. Paper DSC 7 E 2 sect. II Unit - 3 Plant families! Anacardiaceae, Fabaceae.	structure of Root Stem in monocot, Dicot, Abnormal growth, enzyme activity. Paper: DSC 7 E 1 sect. II Unit - 4 Biofertilizer, Paper DSC 7 E - 2 sect. II unit 3. Plant families! Anacardiaceae. Fabaceae.	Double stained micro preparation	

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Department of Botany
Vivekanand College
Kolhapur



(Signature)
(Signature of the Teacher)
Dr. Bhairu N. Shinde

VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: IInd

Name of the Teacher: **Dr. Bhairu Nathaji Shinde** Department: **Botany**

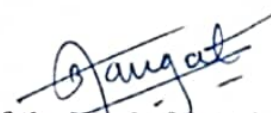
Class	Subject	Syllabus Assigned	Syllabus Covered	Remarks
B.Sc. II	Botany	“Plant Anatomy” Unit: I. Organization of higher plant body	1a. Plant organs 1b. Development of plant body 1c. Internal organization	Completed
B.Sc. III	Botany	“Genetics and Plant breeding and Biostatistics, economic botany and Ethnobotany” Section II Unit : 1 Biostatistics	1a: Introduction, Statistical terms 1b: Sampling- sampling methods. 1c: Collection and Representation of data 1d: Measures of central tendency 1e: Variances and standard deviation, coefficient of variation 1f: Test of significance	Completed
B.Sc. I		Botany Practicals	As per curriculum	All Practicals covered
B.Sc. II		Botany Practical - I	As per curriculum	All Practicals covered
B.Sc. II		Botany Practical - II	As per curriculum	All Practicals covered



(Signature of the Teacher)

Dr. B.N. Shinde





(Signature of the Head of Dept.)

Dr. B.T. Dangal,
Head

Department of Botany
Vivekanand College
Kolhapur



VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 2022 - 2023

Term : Ist / IInd

Name of the Teacher : Dr. Snehal Sanjay Wadkar

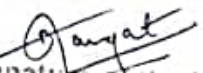
Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc.I	Botany	Paper I ; Section II Unit 2 : Gymnosperms	Paper I ; Section II Unit 2 : Gymnosperms	-	-
		Practical	Practical	-	-
B.Sc.III	Botany	Paper VI ; Section I Unit 1 : Protein Metabolism	Paper VI ; section I Unit 1-Protein Metabolism	-	-
		Section II - Unit 1: Importance of Plant Systematics	Section II - Unit 1: Importance of Plant Systematics	-	-
		Practical - I	Practical - I	-	-
		Practical - II	Practical - II	-	-
		Practical - III	Practical - III	-	-




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Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc III	Botany	Part A			


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(Signature of the Teacher)

VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: Ist / IInd

Name of the Teacher: Dr. Snehal Sanjay Wadkar

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. III	Botany	<p>Section I:</p> <p>Unit 3: Extra-Chromosomal Genome</p> <p>Practical-I Practical-II Practical-III</p>	<ul style="list-style-type: none"> • Introduction and organization of genome • Plastid Inheritance • Mitochondrial Inheritance <p>As per curriculum</p>	<p>All syllabus covered</p> <p>All Practicals covered</p>	
B.Sc. II	Botany	<p>Section II:</p> <p>Unit 2: Nitrogen Metabolism</p>	<ul style="list-style-type: none"> • Introduction-Role of N₂ • Biological Nitrogen fixation: Asymbiotic and Symbiotic • General structure and role of Nitrogenase • Mechanism of reduction of Nitrate to Ammonia • Mechanism of Ammonia assimilation in plants • Nif genes 	<p>All syllabus covered</p>	



B.Sc. I	Botany	Unit 2: Ecosystem and Phyto- geography	<ul style="list-style-type: none"> • Ecosystem- Introduction, Composition and Types • Terrestrial ecosystem , food chain, food web and Ecological Pyramids • Phytogeographical Regions of India(as per Chatterji and Mani) 	All syllabus covered	
		Practical	As per curriculum	All Practicals covered	

Signature of *[Handwritten Signature]*
 Head of Dept.
 Department of Botany
 Vivekanand College
 Kolhapur

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 Signature of Teacher



VIVEKANAND COLLEGE, KOLHAPUR.

STATEMENT OF SYLLABUS COVERED

Year : 20 - 20

Term : IST / IIND

Name of the Teacher : Miss. Pradnya B. Shelar.


Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc-III	Botany.	Aging and Senescence . - Pattern of senescence - Physical changes during senescence control of senescence	All syllabus completed.	-	-
B.Sc-I	Practicals. (Batch- F9).	Paper - I Biodiversity in Cryptogams and Gymnosperms.	This term (sem-I) practicals are completed.	-	
B.Sc-II	Practicals. (Batch- (S10, S11, S12)	Paper - II Plant anatomy & Plant metabolism.	This term (sem-II) Practicals are completed	-	




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Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.sc-II	Plant Protection (Practicals)	Practical-II Plant pathology and Insect pest.			
B.sc-III	Practicals	Practical-III - Genetics and plant breeding - Biostatistics, economic botany & Ethnobotany Practical IV - Molecular biology & biotechnology. - Horticulture, forestry & herbal technology.	Gen. this term (sem-V) practicals are completed.	-	


(Signature of the Head of Dept)
Head
Department of Botany
Vivekanand College
Kolhapur




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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)
STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

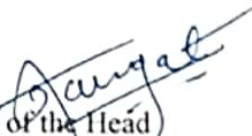
Term: IInd

Name of the Teacher: Miss. Pradnya B. Shelar

Department: Botany

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to covered	Remarks
B. Sc II	Botany	Paper IV Unit- 2 Tissue and Tissue system	2c. Epidermal Tissue system 2d. Secretary tissue system 2e. Mechanical tissue system 2f. Types of vascular bundles 2g. Introduction and scope of plant anatomy- applications in systematic, forensics and Pharmacognosy.	Nil	Completed
B. Sc III	Botany	Paper DSC 7H Section-I Unit-4 Plant Tissue Culture	4a. Principle and Totipotency 4b. Components of culture media, sterilization techniques 4c. Techniques in tissue culture (Callus culture and Cell suspension) 4d. Organogenesis, Embryogenesis 4e. Anther culture 4f. Applications of Plant tissue culture.	Nil	Completed


Signature of the Teacher


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Head
Department of Botany
Vivekanand College
Kolhapur



VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2022-2023

Term: Ist and IInd

Name of the Teacher: Miss. Pradnya B. Shelar

Department: Botany

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to covered	Remarks
B. Sc I	Botany	Practicals	All practicals are covered	Nil	Completed
B. Sc II	Botany	Practicals	All practicals are covered	Nil	Completed
B. Sc III	Botany	Practicals	All practicals are covered	Nil	Completed


Signature of the Teacher


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Department of Botany
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Kolhapur

