



"Education for Knowledge, Science, and Culture"

- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur
(Empowered Autonomous)



Department of Botany

Syllabus Completion Report

2023-2024



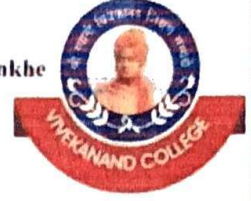


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Department of Botany
Syllabus Completion Report
(2023-2024)

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Head

Department of Botany
HEAD
DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)


Principal

PRINCIPAL
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Syllabus Completion Report (2023-2024)

Department of Botany



VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2023-2024

Term: IInd

Name of the Teacher: **Dr. Bhaurav Tukaram Dangat**

Department: **Botany**

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. I	Botany	Unit-3: Plant Diversity	1. Introduction and definition, Types of diversity, Importance of diversity. Threats of diversity, Magnitude of diversity. 2. Introduction and definition, Types of conservation. (In situ / Ex situ). Necessity of conservation. Practical's		Completed
B.Sc. I	O.E.	Unit-2: Medicinal plants and Phytochemistry	Introduction and definition, History, present and future status. Cultivation, processing, storage, marketing and utilization of medicinal plants. Precautions during the use of herbal medicinal products. History and definition, Importance of phytochemicals Study of different types of phytochemicals. Study of different methods of testing of active chemicals Practical's		Completed



Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. II	PP	Unit I: Introduction of weeds	<p>1a: Weeds – Definition, Harmful and beneficial effect of weed</p> <p>1b: Characteristic of weeds:</p> <p>1c: Classification of weeds:</p> <p>1d: Weed Biology and Ecology:</p> <p>1e: Study of parasitic, aquatic, poisonous and noxious weeds:</p> <p>With reference to</p> <p>a) Gross morphology ,</p> <p>b) Reproduction ,</p> <p>c) Ecology d) Dispersal e) Management</p> <p>1. <i>Argemone Mexicana</i>,</p> <p>2. <i>Portulaca oleracea</i>,</p> <p>3. <i>Parthenium hysterophorus</i>,</p> <p>4. <i>Eupatorium species</i>,</p> <p>5. <i>Alternanthera sessilis</i>,</p> <p>6. <i>Amaranthus spinosus</i>,</p> <p>7. <i>Cassia tora</i> ,</p> <p>8. <i>Cyperus rotundus</i> and</p> <p>9. <i>Cynodon dactylon</i></p>		Completed
B.Sc. III	Botany	Section I: Unit: 1 Molecular Biology and Biotechnology	<p>Recombinant DNA Technology:</p> <p>2a: Introduction and Principle</p> <p>2b: Enzymes involved in recombinant DNA technology</p> <p>2c: Cloning Vectors (Plasmid, Bacteriophage and Cosmids)</p> <p>2d: Gene Amplification: PCR techniques</p> <p>Practicals</p>		Completed

(Signature of the Teacher)
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(Signature of the Principal)

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VIVEKANAND COLLEGE, KOLHAPUR. (EMPOWERED AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2023-24


Term – IInd


Name of the teacher: Dr. Abhijeet Rajaram Kasarkar

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus not be covered	Remarks
B.Sc. -I	Botany (Major and Minor)	Paper IV Unit. I – Study of classification systems. Unit. II – Domains of Life	Paper IV Unit. 1 – Study of classification systems. Unit. 2 – Domains of Life		Completed
	Botany (Open Elective)	Paper I Unit. IV – Study of Medicinal plants –II Paper II Unit. IV – Conservation of herbal plants.	Paper I Unit. IV – Study of Medicinal plants –II Paper II Unit. IV – Conservation of herbal plants.		Completed
B.Sc. II	Botany	Paper – IV Section – I Unit. I – Organization of higher plant body. Paper – IV Section – II Unit. IV – Seed Dormancy and Germination	Paper – IV Section – I Unit. I – Organization of higher plant body. Paper – IV Section – II Unit. IV – Seed Dormancy and Germination		Completed
B.Sc. II	Plant Protection	Paper – II Section – I Unit. III – Methods of weed management	Paper – II Section – I Unit. III – Methods of weed management		Completed
	Practical - I	1. Study of Dicot and Monocot weeds. 2. Study of weed population by quadrat method. 3. Study of herbicidal action on seed germination. 4. Study of mode of	1. Study of Dicot and Monocot weeds. 2. Study of weed population by quadrat method. 3. Study of herbicidal action on seed germination. 4. Study of mode of		Completed

		<p>dispersal of weed.</p> <p>5. Study of herbicides, Nematicides and rodenticides.</p> <p>6. Preparation of weed herbarium.</p> <p>7. Determination of Sucrose percentage.</p> <p>8. Determination of pH and EC of soil samples.</p> <p>9. Study of herbicide label information.</p> <p>10. Determination of soil moisture from crop fields.</p>	<p>dispersal of weed.</p> <p>5. Study of herbicides, Nematicides and rodenticides.</p> <p>6. Preparation of weed herbarium.</p> <p>7. Determination of Sucrose percentage.</p> <p>8. Determination of pH and EC of soil samples.</p> <p>9. Study of herbicide label information.</p> <p>10. Determination of soil moisture from crop fields.</p>		
B.Sc. III	Botany	<p>Paper – XII</p> <p>Unit. 1- Horticulture</p>	<p>Paper – XII</p> <p>Unit. 1- Horticulture</p>		Completed
	Practical - II	<p>1. Study of qualitative test for sugar, starch and cellulose.</p> <p>2. Study of qualitative test for proteins and lipids.</p> <p>3. Determination of fatty acid value of soil sample.</p> <p>4. Estimation of amino acid by circular paper chromatography.</p> <p>5. Comparative phytochemical studies in healthy and stressed plants.</p> <p>6. Identification of genus and species with the help of Cooks flora.</p> <p>7. Study of pollen viability and pollen germination.</p> <p>8. Study of herbarium technique.</p>	<p>1. Study of qualitative test for sugar, starch and cellulose.</p> <p>2. Study of qualitative test for proteins and lipids.</p> <p>3. Determination of fatty acid value of soil sample.</p> <p>4. Estimation of amino acid by circular paper chromatography.</p> <p>5. Comparative phytochemical studies in healthy and stressed plants.</p> <p>6. Identification of genus and species with the help of Cooks flora.</p> <p>7. Study of pollen viability and pollen germination.</p> <p>8. Study of herbarium technique.</p>		Completed


(Signature of Teacher)


(Signature of Head of Department)
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DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2023-2024

Term: II

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	Practical (OE)	Practical	--	Completed
B.Sc. II	Plant Protection	Paper II- DSC 1011D2 : “Weed Science and Insect Pest” Section : II “Insect Pest ”	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 of 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. II	Botany	Practical	Practical II	--	Completed



B.Sc. III	Paper VI Section : II (DSE 1007F1): Biostatistics, Economic Botany and Ethno botany Unit 2- Economic Botany-I Practical	2a: Study of following economical important plant with reference to origin, morphology, parts used and uses. 2b:Cereals- Barley and Oats 2c:Legumes- Soybean andVigna 2d:Vegetables- Spinach 2e:Spices-Clove and blackpepper Practical IV	-	Completed
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M. M. M.

(Signature of the Teacher)

S. S. S.

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VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2023-2024

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	OE Practicals	All syllabus covered	Nil	--



(Signature of Teacher)



(Signature of Head of Dept.)



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VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2023-2024

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 Paper – DSC 1007D Section-II “Plant Metabolism”	2a: Introduction- Role of N ₂ 2b: Biological Nitrogen Fixation- Asymbiotic and Symbiotic 2c: General structure and role of Nitrogenase 2d: Mechanism of Reduction of Nitrate into Ammonia 2e: Mechanism of Ammonia assimilation in plants.	All syllabus covered	Nil	
	Botany	Practicals	All Practicals covered	Nil	--

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VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)


STATEMENT OF SYLLABUS COVERED

Year: 2023-2024

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 Paper – DSE 1007F1 Section-I “Genetics and, Plant Breeding”	3a: Introduction and Organization of genome 3b: Plastid Inheritance 3c: Mitochondrial Inheritance	All syllabus covered	Nil	--
	Botany Paper – DSE 1007F2 Section-I “Molecular Biology and Biotechnology”	1a: Introduction, Nucleic Acids (DNA, RNA) 1b: Griffith’s and Avery’s transformation experiment, Harshey-Chase bacteriophage experiment. 1c: DNA structure and Types of DNA 1d: DNA replication 1e: Types of RNA	All syllabus covered	Nil	--


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VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2023-2024

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	<p>DSE-1007F3</p> <p>Section I:</p> <p>Unit 3: Genetic Engineering</p>	<p>Introduction, Methods of gene transfer, Direct gene transfer techniques, Agrobacterium mediated gene transfer, Transgenic plants (Bt cotton & Golden Rice) Applications of genetic transformation, Blotting techniques- Northern, Southern and DNA fingerprinting</p>	All syllabus covered	
B.Sc. II	Plant Protection	<p>“Weed Science and Insect Pest”</p> <p>DSC 1011D2</p> <p>Section II:</p> <p>Unit 1: Introduction to insect pests</p>	<p>Definition and losses caused by insect pests, Causes for insects to assume pest status.</p> <p>Classification of insect pest based on-</p> <p>a) Occurrence of pest b) Intensity of pest c) Level of infestation d) Food requirement</p>	All syllabus covered	



		Unit 4: Recent trends in pest management	Introduction a) Attractants b) Repellents c) Antifeedants d) Pheromones e) Chemosterilents f) Precautionary measures used during use of pesticides	All syllabus covered	
B.Sc. I	Botany	DSC03BOT21 MIN03BOT21 "Reproductive Botany" Unit I: Study of Microsporogenesis	Study of microsporangium, Study of anther (Structure and dehiscence), Study of microsporogenesis, Study of pollengrain, Study of development of male gametophyte	All syllabus covered	
B.Sc. I	Botany	Unit IV: Endosperm and Embryo	Structure of dicot and monocot embryo, Seed formation, Polyembryony	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	

Prigati S
(Dr. Priya D. Patil)
(Signature of Teacher)



S. Jangal
(Signature of Head of Dept.)
HEAD
DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
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VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2023-2024

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. I	Botany Open Elective	Paper –I Herbal Technology Unit - III Study of Medicinal Plant -I	3a. Study of different plant parts used in medicine, 3b. Study of plants used in hair care (Reetha and Shikekai) 3c. Study of plants used in skin care (Aloe Vera, Turmeric) 3d. Study of plants used as anti diabetic (Guduchi, Neem, Jamun)		Completed
	Botany Open Elective	Paper –I Unit – III Analytical Pharmacognosy	3a. Study of Secondary Metabolites 3b. Drug Adulteration 3c. Types of Drug Adulteration 3d. Methods of Drug Evaluation		Completed



B.Sc. II	Plant Protection	Paper – DSC 1011D2 Section – II Unit - III Management of Insect Pest	3a. Principal of insect pest control 3b. Classification based on 1. mode of entry- Stomach, contact, systemic and Fumigants 2. Mode of action- Respiratory, Nervous system 3. Chemical Nature- Inorganic, Organic- Chlorinated Hydrocarbons, Organophosphates, Carbamates, synthetic pyrethroids Plant origin insecticides, 3d. Nature of formulations- Dust, Granules, Wettable powder, EC, Need of formulations, Adjuvant 3c. Utilization of entomopathogenic nematodes in IPM		Completed
B.Sc. III	Botany	Paper – DSE 1007 F2 Section – II Unit - IV Ethnobotany	4a. Introduction and objectives, 4b. Data collection, Herbarium, Field work, 4c. Role of Ethnobotany in modern medicine, Ancient literature, Sacred groves Archaeological findings, Pharmacognosy, Phytochemicals		Completed



B.Sc. III	Botany	Paper – DSE 1007 F2 Section – IV- Unit IV Plant Tissue Culture	4a. Principle and Totipotency, 4b. Components of tissue culture, Sterilization techniques 4c. Techniques in tissue culture, organogenesis, Embryogenesis 4d. Anther Culture, 4e. Applications of tissue culture		
B.Sc. II	Botany	Practical I and Practical II	As per Curriculum		Completed
B.Sc. III	Botany	Practical III	As per Curriculum		Completed

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Name and Signature of Teacher

Dr. Lubdha A. Kagale



Dangat

Name and Signature of HOD

Dr. B. T. Dangat
HEAD
DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2023-2024

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. I	Botany Open Elective	“Herbal Technology- I” Paper I: Unit I: Herbal medicine	1a. Definition of herbal medicine. 1b. History and Scope 1c. Role of medicinal plants in Ayurveda. 1d. Importance of herbal medicine. 1e. Herbal drug industries.		Completed
		“Herbal Technology-II” Paper I: Unit I: Pharmacognosy	1a. History and definition 1b. Importance of Pharmacognosy. 1c. Study of technique of Pharmacognosy. 1d. Role of Pharmacognosy in medicines.		Completed



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>Paper II</p> <p>“Weed Science and Insect Pest”</p> <p>Unit IV: Non Insect Pest and Household pest</p>	<p>4a. Nematodes</p> <p>4b. Birds</p> <p>4c. Rats</p> <p>4d. Snails</p> <p>4e. Household Pests:</p> <ol style="list-style-type: none"> 1. Drosophila 2. House fly 3. Mosquitoes 		Completed
B.Sc. III	Botany	<p>“Biostatistics Economic Botany and Ethnobotany Section II</p> <p>Unit : I</p> <p>Biostatistics</p> <p>Section II: “Horticulture, Forestry and Herbal Technology”</p> <p>Unit IV: Herbal Technology</p>	<p>1a. Introduction, Statistical terms</p> <p>1b. Sampling Methods</p> <p>1c. Collection and representation of data</p> <p>1d. Measures of Central tendency</p> <p>1e. Variances and standard deviation</p> <p>1f. Test of Significance (T test), Chi Square test.</p> <p>4a. Pharmacognosy: Definition and Techniques</p> <p>4b. Phytochemicals</p> <p>4c. Drug</p> <p>4d. Scope</p>		Completed



B.Sc. II	Botany	Botany Practical - I	As per curriculum		All Practicals covered
B.Sc. III	Botany	Botany Practical- III	As per curriculum		All Practicals covered



Name and Signature of Teacher

(Dr. Mrunalini N. Desai)



Name and Signature of HOD

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VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: -2023-2024

Term: IInd

Name of the Teacher:- Dr. Priyanka Pravin Jadhav

Department:- Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. III	Botany	Paper – DSC 1007 F1 Section – I Unit:-1 Heredity	1a:Introduction, Terminologies, Terminologies, Laws of Inheritance (Monohybrid and Dihybrid) 1b:Multiple Allelism	Nil	Completed
B.Sc. III	Botany	Paper – DSC 1007 F1 Section – I Unit:-2 Linkage and Crossing over	2a. Linkage concept and History, types of Linkage, 2b. Crossing over: ConceptSignificance, Cytological proof of crossing over, 3c. Linkage Maps	Nil	Completed
B.Sc. II	Botany	Practical's from "Taxonomy, Embryology and Plant Pathology"	As per curriculum	Nil	Completed



B.Sc. I	Botany	Practical's from "Reproductive botany And Reproductive Botany and Diversity and conservation of Plants"	As per curriculum	Nil	Completed
B.Sc. I	Botany (OE)	Practical's from "Herbal Technology"	As per curriculum	Nil	Completed

PPJadhav
(Name and Signature of Teacher)

(Dr. Priyanka P. Jadhav)

P. Jadhav
(Name and Signature of HOD)

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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year: 2023-2024

Term: II

Name of the Teacher: Dr. Snehal S. Wadakar

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to covered	Remarks
B.Sc. I	Botany	Practical	Practical	--	Completed
B.Sc. I	Botany	Practical (OE)	Practical	--	Completed
B.Sc. II	Botany	DSC 1007 D: “ Plant Anatomy and Plant Metabolism ” Section : II (DSC 1007D2): “ Plant Metabolism ” Unit I: Enzymes	1a.Introduction 1b. Chemical nature and properties of enzymes 1c. Classification and Nomenclature of enzyme 1d. Mechanism of enzyme action- Lock and Key hypothesis and Induced fit hypothesis. 1e. Factors affecting enzyme activity- temperature, pH and substrate. 1f. Allosteric modification and Feedback inhibition.	--	Completed
B.Sc. III	Botany	Paper VI Section: II (DSE 1007F1):	3a:Beverages-Tea and Coffee 3b:Fiber Yielding Plants-Cotton and <i>Hibiscus cannabinis</i>	--	Completed



	Biostatistics, Economic Botany and Ethno botany Unit 3- Economic Botany-II Practical II	3c: Oil yielding <i>Pongamia pinnata</i> and Sunflower 3d: Dye : <i>Lawsonia</i> and <i>Indigofera</i> Practical II		
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(Signature of the Teacher)



(Signature of the HoD)
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Vivekanand College, Kolhapur (Empowered Autonomous)
 Department of Botany
 Statement of Syllabus covered

Year: 2023-24


Term IInd

Name of the Teacher: Miss. Pradnya B. Shelar

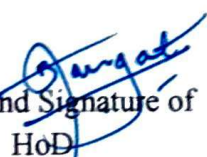
Department: Botany

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to covered	Remarks
B. Sc I	Botany	Unit. II. Study of Megasporogenesis	2a. Study of types of ovule. 2b. Study of Megasporogenesis 2c. Study of typical embryosac. 2d. Study of types of embryosac: Monosporic (Polygonum type), Bisporic (Alliumsp.) and Tetrasporic (Peperomia type).	Nil	Completed
		Unit. III. Pollination and Fertilization	3a. Introduction and definition. 3b. Types of pollination.(self, cross and its sub types) 3c. Agents of pollination	Nil	Completed
B. Sc III	Botany	Unit III. Plant Breeding	4a: Introduction and objectives, Plant genetic resources, Centers of origin and Domestication of crop plants. 4b: Methods of crop improvements. Methods of Breeding, Selection methods for self-pollinated, cross pollinated and vegetatively	Nil	Completed

			propagated plants. Mutation breeding		
B.Sc I	Botany	Practical	As per curriculum	Nil	All Practical's completed
B.Sc II	Botany	Practical	As per curriculum	Nil	All Practical's completed


 Name and Signature of Teacher
 (Miss. Pradnya B. Shelar)




 Name and Signature of
 HoD
HEAD
 DEPARTMENT OF BOTANY
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Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Botany

Statement of Syllabus covered

Year: 2023-24

Term IInd

Name of the Teacher: Dr. Udaysingh A Desai

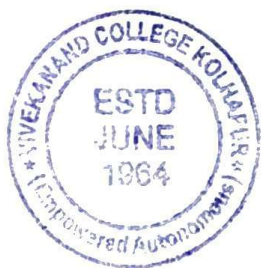
Department: Botany

Classes	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to covered	Remarks
B. Sc II	Botany	Unit. IV Plant Adaptations	4a. Mangrove Biology 4b. Xeric adaptations 4c. Carnivorous Plant 4d. Epiphytic and Parasitic Plant		Completed
B. Sc II	Botany	Unit. III. Growth and Development	3a. Definition and Phases of growth. 3b. Plant growth regulators: Discovery, site of synthesis, Physiological (Practical applications) roles of growth regulators – Auxins, Cytokinin, Gibberellins and Abscisic acid 3c. Photoperiodism and Florigen Concept, Photoperiodic classification of plants- LDP, SDP, DNP. 3d. Vernalization: Concept, site of vernalization and its significance.		Completed
B. Sc III	Botany	Unit II. Gardening and Ornamental Plants	2a: Gardening- Definition, Objective, Types of Gardening, Importance and Landscape garden 2b: Ornamental		Completed

			Plants: Herbs, Shrubs, Trees, Indoor plants, Lawn and Climber		
B. Sc III	Botany	Unit III. Forestry	3a:Introduction, Forest types of India3b:Wild life and Biosphere reserves3c:Social and Agricultural Forestry3d:Forest research education and Training institutions3e:Forest Acts3f:Different Plant as a forest products.		Completed
B.Sc I	Botany	Botany Practical – I	As per curriculum		All Practical's completed
B.Sc I	Botany	Botany Practical – I	As per curriculum		All Practical's completed
B.Sc II	Botany	Botany Practical – I	As per curriculum		All Practical's completed
B.Sc II	Botany	Botany Practical – I	As per curriculum		All Practical's completed

Name and Signature of Teacher

Dr. Devasi V. A.



Name and Signature of HoD

G. Anand
HEAD
 DEPARTMENT OF BOTANY
 VIVEKANAND COLLEGE, KOLHAPUR
 (TEMPORARILY EMPOWERED AUTONOMOUS)