Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of Botany

Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Bhaurav Tukaram Dangat

Programme: B. Sc. I

Semester: I

Subject: Botany

Course Title: "Plant Morphology"

1	Month: Augu	st	Module/Unit:	Sub-units planned
Lecture	s Practical's	Total	Unit I: General organization of	Root system –
04	04	08	plant body:	It troduction, types and modification of Shoot system - Introduction and modification of stem
Mo	Month: September		Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit I: General organization of plant body:	Leaf - Introduction,
04	04	08		Types- Simple and Complex, Phyllotaxy, Leaf venation, Modification
Mo	Month: October		Module/Unit:	Sub-units planned
ectures	Practical's	Total	Unit II: Study of Inflorescence	Definition and characters, types of inflorescences
05	04	09	<	and significance of inflorescence.

Name and Signature of HoD

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Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of Botany

Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Bhauray Tukaram Dangat

Programme: B. Sc. II

Semester: III

Subject: Botany (Major)

Course Title: "DSC03BOT32: "Diversity of Phanerogams"

j	Month: July		Module/Unit:	Sub-units Planned
Lectures	Practical's	Total	Unit- 3: Angiosperms	Introduction, Habit and Habitat dive sity, Methods of
04	04	08		reproduction
Month: August			Module/Unit:	Sub-units Planned
Lectures	Practical's	Total	Unit- 3: Angiosperms	Evolutionary history, Taxonomic hierarchy, Bentham and Hooker System
04	04	08	out o. Anglosperius	of Classification (Merit and Demerit),
Mor	th: Septemb	er	Module/Unit:	Sub-units Planned
Lectures	Practical's	Total	Unit- 3: Angiosperms	Difference between Dicot and Monocot plant,
04	04	08		
Month: October		Module/Unit:	Sub-units Planned	
Lectures	Practical's	Total	Unit- 3: Angiosperms	Study of Sunflower and Maize root and stem.
02	04	06		

Name and Signature of HoD

DEPARTMENT OF BOTANI

ESTD JUNE 1964

Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of Botany

Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Bhaurav Tukaram Dangat

Programme: 3. Sc. III

Semester: V

Subject: Botany

Course Title: "Plant Anatomy"

Month: July			Module/Unit:	Sub-units planned
Lectures 04	Practical 04	Total	Section II: Unit I1:	Primary structure of monocotyledon and dicotyledon root, stem and leaf
-	04	08	Primary and secondary structures of plant body	Normal secondary growth in dicotyledon root and stem Anomalous secondary growth in Bignonia (Dicot) and Dracaena (Monocot) stem
Mont's: August			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit I1:	Periderm and Lenticel, Epidermal tissue system, Secretary tissue
04	04	08	Primary and secondary structures of plant body.	system, Mechanical tissue system
Mon	th: Septem	ber	Module/Unit:	Sub-units planned
04	04	08	Unit IV: Primary and secondary structures of plant body.	Plant Adaptations Hydrophytes Xeric adaptations
Month: October		er	Module/Unit:	Sub-units planned
04	-	04	Unit IV: Plant Adaptations	Carnivorous plant Epiphytic and Parasitic plant Mangrove Biology

Name and Signature of HoD

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Department of Botany Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Bhaurav Tukaram Dangat

Programme: B. Sc. II

Semester: III

Subject: Botany (Minor)

Course Title: "MIN03BOT32: "Plant Taxonomy"

Month: July			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit-2:	Principles and rules
04	04	08	Botanical Nomenclature	(ICN), Salient features of International Code of Botanical Nomenclature (ICBN),
Month: August			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit-2:	Rules and regulations of Binomial nomenclature
04	04	08	Botanical Nomenclature	System, Systems of Classification-Natural,
				Artificial and Phylogenetic
Month: September		er ,	Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit-2:	Bentham and Hooter's system of Classification
04	04	08	Botanical Nomenclature	(Up to series).

Name and Signature of HoD

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Academic Year: 2025-2026

Name of the teacher: Dr. Bhaurav Tukaram Dangat

Programme: B. Sc. I

Semester: II

Subject: Botany

Course Title: DSC-III: 2DSC03BOT21: "Reproductive Botany"

Month: December			Module/Unit:	Sub-units planned	
Lectures	Practical	Total	Unit III: Pollination	Introduction and definition, Types of pollination (self, cross and its	
04	04	08	and Fertilization	subtypes), Agents of pollination, Double fertilization: Definition and mechanism.	
Month: January		ry	Module/Unit:	Sub-units planned	
Lectures	Practical	Total	Unit III: Pollination	Agents of pollination, Double fertilization: Definition and	
04	04	08	and Fertilization	mechanism.	
Mor	th: Februa	ıry	Module/Unit:	Sub-units planned	
04	04	08	Unit IV: Endosperm and Embryo	Introduction, Development of endosperm, Types of endosperm, Embryogeny	
Mo	onth: Marc	h	Module/Unit:	Sub-units planned	
04	04	08	Unit IV: Endosperm and Embryo	Structure of dicot and monocot embryo, Seed formation, Polyembryony.	

Name and Signature of HoD

Dr. B.T. Dangat

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Academic Year: 2025-2026

Name of the teacher: Dr. Bhaurav Tukaram Dangat

Programme: B. Sc. II

Semester: IV

Subject: Botany (Major)

Course Title: DSC-VIII: 2DSC03BOT42: "Industrial Botany"

M	onth: Januar	у	Module/Unit:	Sub-units planned
Lectures 04	Practical's	Total 08	Unit- 3: Sources of natural dyes	Sources of natural dyes in India and their extraction methods,
04	04	00		merits and limitations of plant-based dyes.
Month: February		ry	Module/Unit:	Sub-units planned
Lectures	Practical's	Total		Practical's
(**)	04	04	Practical's	r factical 5
Month: March			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Practical's	Practical's
	04	04		

Name and Signature of HoD

. B.T. Dangat

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Principal
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Academic Year: 2025-2026

Name of the teacher: Dr. Bhaurav Tukaram Dangat

Programme: B. Sc. III

Semester: VI

Subject: Botany

Course Title: DSC-XII: DSC03BOT61: "Fundamentals of Plant Taxonomy"

DSE-II: DSE03BOT61: "Research Technique in Botany"

Month: December		Module/Unit:	Sub-units planned	
Lectures	Practical's	Total	Unit-II:	Common name, Scientific name, Binomia
04	04	08	Plant Nomenclature	Nomenclature (Generic name, Specific epithet), Rules and Regulations,
Mo	onth: Januar	у	Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit-II:	International Code of Botanical Nomenclature (ICBN), Systems of
04	04	08	Plant Nomenclature	classification (up to series), APG III and IV.
Month: February		гу	Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit-IV:	Plant micro techniques- Fixatives and staining (Single and Double), Extraction
04	04	08	Techniques	techniques (Soxhlet extraction). Photomicrography,
M	onth: March		Module/Unit:	Sub-units planned
Lectures	Practical's	Total		Ethical and legal issues of research -
04	04	08	Unit-IV: Techniques	Authentication of specimens, Legal permissions for collection of biological material from local biodiversity committees, Forest department, State biodiversity board, National Biodiversity Authority.

Name and Signature of HoD

Dr. B.T. Dangat



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Academic Year: 2024-2025

Name of the teacher: Dr. Abhijeet Rajaram Kasarkar

Programme: B. Sc. 1

Semester: 1

Subject: Botany

Course Code and Title: 2DSC03BOT12: "Plant Morphology"

Month: July			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit III: Study of Flower	Defir ition and parts of a typical flower,
03	03	06		Symmetry.
Month: August			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit III: Study of Flower	Insertion of floral whorls- Hypogynous, Perigynous
04	04	08		and Epigynous, Calyx and Corolla.
Mon	th: Septeml	per	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit III: Study of Flower	Perianth, Study of Androecium and
04	04	08	Unit IV: Study of Fruit	Gynoecium. Intro 'uction of Fruit
Month: October		r	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit IV: Study of Fruit	Types of Fruit.
02	02	04		

Name and Signature of Teacher (Dr. A. R. Kasarkar) ESTD JUNE 1964

Name and Signature of HoD

Academic Year: 2025-2026

Name of the teacher: Dr. Abhijeet Rajaram Kasarkar

Programme: B. Sc. II

Semester: III

Subject: Botany (Major)

Course Code and Title: 2DSC03BOT32: "Diversity of Phanerogams"

Ionth: July		Module/Unit:	Sub-units Planned
Practicals	Total	Unit 4: Taxonomic Importance	Morphology, Anatomy
112	02		=
onth: Augus	it	Module/Unit:	Sub-units Planned
Practicals	Total	Unit 4: Taxonomic Importance	Chemotaxonomy, Palynology,
03	07		Cytotaxonomy, Numerical Taxcnomy,
th: Septeml	oer	Module/Unit:	Sub-units Planned
04	07	Unit 4: Taxonomic Importance	Molecular Taxonomy, DNA Barcoding of plants.
Month: October		Module/Unit:	Sub-units Planned
03	05	Unit 4: Taxonomic Importance	Herbaria, Herbarium Technique, Digital Herbaria
	Practicals onth: Augus Practicals 03 th: Septemb	Practicals Total - 02 onth: August Practicals Total 03 07 th: September 04 07 onth: October	Practicals Total O2 Onth: August Module/Unit: Practicals Total Unit 4: Taxonomic Importance O3 O7 O4 O7 Unit 4: Taxonomic Importance Module/Unit: Unit 4: Taxonomic Importance Module/Unit: Module/Unit: Module/Unit:

Name and Signature of Teacher
(Ds. A. R. Kasaskas)



Name and Signature of HoD

VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Dr. Abhijeet Rajaram Kasarkar

Programme: B. Sc. II Semester: III

Subject: Botany (Minor)

Course Code and Title: 2MIN03BOT32: "Plant Taxonomy"

Ionth: July		Module/Unit:	Sub-units planned
Practicals	Total		Introduction, Importance of Taxonomy
ă.	02	Unit 1: Introductory Taxonomy	
Month: August		Module/Unit:	Sub-units planned
Practicals	Total	Unit 1: Introductory	Functions of Taxonomy, Nome: clature.
-	03	Taxonomy	
th: Septemb	per	Module/Unit:	Sub-units planned
3	03	Unit 1: Introductory Taxonomy	Classification, Ranks, Categories and taxonomic groups.
	Practicals onth: Augus Practicals	Practicals Total - 02 onth: August Practicals Total - 03 th: September	Practicals Total Out 1: Introductory Taxonomy Module/Unit: Practicals Total Practicals Total Unit 1: Introductory Taxonomy Out 1: Introductory Taxonomy Unit 1: Introductory Taxonomy Unit 1: Introductory Taxonomy Unit 1: Introductory

Name and Signature of Teacher (Dr. A. R. Kasarkar)

ESTD JUNE 1964

Name and Signature of HoD

Academic Year: 2025-2026

Name of the teacher: Dr. Abhijeet Rajaram Kasarkar

Programme: B. Sc. III Semester: V

Subject: Botany

Course Code and Title: DSC03BOT53: "Plant Anatomy"

Month: July			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 1: Organization of Higher Plant Body	Introduction to plant organs, Development of
04		04		plant body.
Mo	onth: Augu	st	Module/Unit:	S: b-units planned
Lectures	Practical	Total	Unit 1: Organization of Higher	Internal Organization of plant body.
04	04	08	Plant Body Unit 2: Tissue and Tissue System	Study of Meristem
Mon	th: Septem	ber	Module/Unit:	Sub-units planned
03	03	06	Unit 2: Tissue and Tissue System	Theories of structural development. Study of Permanent tissue. Study of Complex tissue.
Month: October			Module/Unit:	Sub-units planned
02	02	04	Unit 2: Tissue and Tissue System	Types of Vascular Bundles

Name and Signature of Teacher (Dr. A. R. Kasarkar)



Name and Signature of HoD

Academic Year: 2025-2026

Name of the teacher: Dr. Abhijeet Rajaram Kasarkar

Programme: B. Sc. I

Semester: II

Subject: Botany

Course Code and Title: 2DSC03BOT21: "Reproductive Botany"

Mon	th: Decemb	er	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit 1: Study of	Study of microsporangium, Study
03	03	06	Microsporogenesis	of Anther.
Month: January			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit 1: Study of Microsporogenesis	Study of microsporogenesis, Study of pollen grain, Study of
05	05	10		male gametophyte development.
Mor	nth: Februa	ry	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit 2: Study of	Study of types of ovule, Study of
04	04	08	Megasporogenesis	megasporogenesis, Study of typical embryosac.
Month: March		h	Module/Unit:	Sub-units planned
Lectures	Practicals	Total		Study of types of embryosac -
02	-	02	Unit 2: Study of Megasporogenesis	Monosporic, Bisporic, Tetrasporic.

Name and Signature of Teacher

(Dr. A. R. Kasarkar)

Name and Signature of HoD

Academic Year: 2025-2026

Name of the teacher: Dr. Abhijeet Rajaram Kasarkar

Programme: B. Sc. II

Semester: IV

Subject: Botany (Major)

Course Code and Title: 2DSC03BOT42: "Industrial Botany"

Month: December			Module/Unit:	Sub-units Planned
Lectures	Practicals	Total	Unit 2: Extraction of sugar	Flow diagram of the process of sugar
02	02	04	from sugarcane	production.
Month: January		у	Module/Unit:	Sub-units Planned
Lectures	Practicals	Total	Unit 2: Extraction of sugar	Problems faced by sugar industry in India.
04	04	08	from sugarcane	By products of sugar industry.
Month: February		ry	Module/Unit:	Sub-units Planned
Lectures	Practicals	Total	Unit 2: Extraction of sugar	Distillation of alcohol and other products with special
03	03	06	from sugarcane	reference to distilleries in Maharashtra.

Name and Signature of Teacher
(Dr. A. R. Kasarkar)

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Name and Signature of HoD

Academic Year: 2025-2026

Name of the teacher: Dr. Abhijeet Rajaram Kasarkar

Programme: B. Sc. II Semester: IV

Subject: Botany (Minor)

Course Code and Title: 2MIN03BOT42: "Commercial Botany"

Mon	th: Decemb	er	Module/Unit:	Sub-units planned
Lectures	Practicals	Total		Introduction, Potential Algae.
02	•	02	Unit 1: Algae	
Month: January		Module/Unit:	Sub-units planned	
Lectures	Practicals	Total	Unit 1: Algae	Products, Processing and application of Algae.
04		04		Future prospectus- Sargassum, Nostoc.
Month: February		Module/Unit:	Sub-units planned	
Lectures	Practicals	Total	F-20 NO 10 NO2	Spirulina, Chlorella, Prophyra.
03		03	Unit 1: Algae	A== 41/2

Name and Signature of Teacher
(D* A R. Kasarkar)

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Name and Signature of HoD

Academic Year: 2025-2026

Name of the teacher: Dr. Abhijeet Rajaram Kasarkar

Programme: B. Sc. III

Semester: VI

Subject: Botany

Course Code and Title: DSC03BOT61: "Fundamentals of Plant Taxonomy"

Month: November			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 1: Introductory Taxonomy	Need, Importance of Taxonomy, Different aspects of taxonomy.
03	02	05		
Mon	th: Decem	ber	Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 1: Introductory	Systematics, Molecular Systematics, Phases of
04	04	08	Taxonomy	Taxonomy.
Mo	nth: Janua	ry	Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 4: Taxonomic Literature	Flora, Manuals, Monographs, eFlora,
04	04	08	and Plant Families	Revisions, Journals, Periodicals, Reference books. Study of Plant families.
Month: February		iry	Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 4: Taxonomic Literature	Study of Plant families- Fabaceae, Solanaceae,
03	03	06	and Plant Families	Euphorbiaceae, Poaceae

Name and Signature of Teacher
(Dr. A. R. Kasavkav)



Name and Signature of HoD

DEPARTMENT OF BOTANY VIVEKANAND COLLEGE, KOLHAPUR

Vivekanand College, Kolhapur

(An Empowered Autonomous Institute)

Department of Botany
Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Annapurna Ram Alvikar

Programme: B. Sc. III Minor

Semester: V

Subject: Botany

Course Title: "Plant Pharmaceutical Industry"

(MIN-IX: MIN03BOT51)

Month:	1st July		Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit III - Study of indigenous	Introduction,
04	***	04	traditional drugs	Drugs used to cure the following ailments: Cold and cough, Gastrointestinal diso: lers, Urinary bladders, Liver diseases, Anti arthritic agents, Sedative, Cardiac drugs and other disorders.
Month:	August		Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit III – Study of indigenous traditional drugs	Hedychium sp., Ficus
04	% 	04		religiosa. Boerhavia diffusa, Adhatoda vasaka, Piper longum,
Month:	September		Module/Unit:	Sub-units planned
03		03	Unit III – Study of indigenous traditional drugs	Terminalia arjuna, Andrographis paniculata Tern inalia belericai,
Month : October			Module/Unit:	Sub-units planned
02		02	Unit III – Study of indigenous traditional drugs	Asparagus racemosus Centella asiatica Azadirachta indica

Name and Signature of Teacher (Dr. Annapurna, R. Alvikar) ESTD JUNE 1964

Name and Signature of HoD

VIVEKANAND COLLEGE, KOLHAPUP
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Department of Botany Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Annapurna Ram Alvikar

Programme: B. Sc. III Major

Semester: V

Subject: Botany

Course Title: "Plant Physiology and Metabolism"

(DSE-I: DSE03BOT51)

Month: 1st July			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit I – Plant Water	Introduction,
04	0 <u>24</u> 8	04	Relationship	Physiological importance of water, Permeability, Diffusion and Osmosis. Absorption of water (Active and Passive)
Month:	August		Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit I – Plant Water Relationship	Factors affecting absorption of water. The
05	, .	05	Relationship	ascent of sap (Mechanism and different theory), Transpiration- Introduction, types and mechanism.
Month:	September		Module/Unit:	Sub-units planned
04		04	Unit I – Plant Water Relationship Unit II- Mineral Nutrition	Guttation and Wilting- Introduction and mechanism. Role of mineral elements in plants, Macro and micro elements, specific role and deficiency symptoms of elements,
Month:	October		Module/Unit:	Sub-units planned
03		03	Unit II- Mineral Nutrition	Sites for absorption of mineral ions:

Name and Signature of Teacher (Dr. Annapurna, R. Alvikar)

ESTD JUNE 1964

Name and Signature of HoD

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Department of Botany Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Annapurna Ram Alvikar

Programme : B. Sc. I (Major)

Semester: III

Subject: Botany

Course Title: "Diversity of Cryptogams"

(DSC-V: 2DSC03BOT31)

Month : 1st July			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit III – Bryophyta	
04	•	04		Introduction, Distribution in India, Range of Thallus organization, Methods of reproduction,
Month:	August		Module/Unit:	Sub-units planned
Lectures	Practicals	Total		Outline of classification
04		04	Unit III – Bryophyta	according to Parihar(1965), Study of example with reference to occurrence, plant body and life cycle of <i>Riccia</i>
Month : September			Module/Unit:	Sub-units planned
04	-	04	Unit III – Bryophyta	Study of example with reference to occurrence plant body and life cycle of Anthoceros.

Name and Signature of Teacher (Dr. Annapurna, R. Alvikar) ESTD JUNE 1964

Name and Signature of HoD

VIVEKANAND COLLEGE, KOLHAPI:

Vivekanand College, Kolhapur

(An Empowered Autonomous Institute)

Department of Botany
Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Annapurna Ram Alvikar

Programme: B. Sc. II (Minor)

Semester: III

Subject: Botany

Course Title: "Plant Taxonomy"

(MIN-II: 2MIN03BOT32)

Mo	onth: 1st Jul	у	Module/Unit:	Sub units about
Lectures	Practicals	Total	Unit III - Tools for Taxonomic	Sub-units planned
04		04	Studies	Herbarium- Introduction, Roles and significance, Botanical gardens- Introduction,
Month:	August		Module/Unit:	Sub-units planned
Lectures	Practicals	Total		Role and Significance, ,
04	03	07	Unit III – Tools for Taxonomic Studies	Sir. J. C. Bose Botanica Garden, Calcutta.,
Month : !	September		Module/Unit:	Sub-units planned
04	04	08	Unit III – Tools for Taxonomic Studies	Kew Botanical Garden Kew Lead Botanica Garden, Shivaj University, Kolhapur.

Name and Signature of Teacher (Dr. Annapurna. R. Alvikar)

ESTD JUNE 1964

Name and Signature of HoD

Vivekanand College, Kolhapur (Autonomous) Department of Botany Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Annapurna Ram Alvikar

Programme: B. Sc. I

Semester: I

Subject: Botany

Course Title: "Practicals"

onth : Augus	st	Module/Unit:	Sub-units planned
Practicals	Total		•
03	03		
September		Module/Unit:	Sub-units planned
Practicals	Total		
04	04		41224
Month : October		Module/Unit:	Sub-units planned
04	04		ween
	Practicals 03 September Practicals 04 October	Practicals Total 03 03 September Practicals Total 04 04 October	Practicals Total 03 03 September Module/Unit: Practicals Total 04 04 October Module/Unit:

Name and Signature of Teacher (Dr. Annapurna, R. Alvikar)

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Name and Signature of HoD

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Department of Botany

Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Annapurna Ram Alvikar

Programme: B.Sc. III Minor Semester: VI

Subject: Botany Course Title: "General Agriculture" (MIN-X: MIN03BOT61)

Month : November		Module/Unit:	Sub-units planned	
Lectures	Practical's	Total	Unit I – Introduction and study of major	Introduction, And Importance of agriculture,
03	03	06	crops	Study of following crops of Maharashtra with reference to botanical name, geographical distribution, origin, gross morphology soil and climate, seed and sowing, varieties, manures and fertilizers, harvesting and yield and economic importance of Cereal – Jowar,
Month : December			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit I – Introduction	Cereal -Rice., Oil seed crops-
04	04	08	and study of major crops	Cotton, Soybean.,
Month:	January		Module/Unit:	Sub-units planned
04	03	07	Unit I – Introduction and study of major crops	Pulse crop – Tur, Gram., Cash crop- Sugarcane, Spice- Turmeric,
Month: February			Module/Unit:	Sub-units planned
02	02	04	Unit I – Introduction and study of major crops	Spice-Ginger, Fruit crop- Mango, Pomegranate.

Name and Signature of Teacher (Dr. Annapurna, R. Alvikar) ESTD JUNE 1964 1964

Name and Signature of HoD

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Department of Botany

Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Annapurna Ram Alvikar

Programme: B.Sc. III Major Semester: VI

Subject: Botany Course Title: "Fundamentals of Plant Taxonomy

(DSCXII: DSC03BOT61)

Month : November			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit III - Tools for Taxonomic	Herbarium- Introduction,
04	, TT	04	Studies	Roles and significance, Botanical gardens- Introduction,
Month:	December		Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit III – Tools for Taxonomic	Important Herbaria of the
04	<u> </u>	04	Studies	worlds, Methods of Preparing herbarium. Special types of garden Arboretum,
Month:	January		Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Special types o	Special types of garden
04		04	Unit III – Tools for Taxonomic Studies	Arboretum, Pinetum, Orchidarium, Bambusetum. Study of Royal botanical garden, Kew Botanical Garden.
Month:	February	30	Module/Unit:	Sub-units planned
Lectures	Practical's	Total		
02		02	Unit III – Tools for Taxonomic Studies	some major botanical gardens in India.

Name and Signature of Teacher (Dr. Annapurna, R. Alvikar) ESTD JUNE 1964 1964

Name and Signature of HoD

DEPARTMENT OF BOTANY

Department of Botany

Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Annapurna Ram Alvikar

Programme: B.Sc. II (Minor) Semester: IV

Subject: Botany Course Title: "Commercial Botany" (MIN-IV: 2MIN03BOT42)

Mon	th : Decemb	er	Module/Unit:	Sub-units planned
Lectures 04	Practical's	Total 08	Unit III – Bryophytes and Pteridophytes	Introduction, Potential member, products, processing and applications of organisms (Future prospectus) Bryophytes- Moss, Marchantia, Riccia. Pteridophytes - Adiantum, Nephrolepis, Dryopteris, Polypodium, Lycopodium.
Month:	January		Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit III –	Pteridophytes -Nephrolepis,
04	03	07	Bryophytes and Pteridophytes	Dryopteris, Polypodium, Lycopodium.
Month:	February		Module/Unit:	Sub-units planned
04	04	08	Unit IV – Higher Plants	Introduction, Potential member, Products, Processing and applications of organisms (Future prospectus). Gymnosperm- Cycas, Pinus, Ginkgo, Taxus Angiosperm- Aswahagandha, Ashoka, Atropa, Plumbago, Costus.
Month : March		Module/Unit:	Sub-units planned	
Lectures	Practical's	Total	Unit IV – Higher Plants	Angiognam Amerikan - II.
04	04	08		Angiosperm- Aswahagandha Ashoka, Atropa, Plumbago, Costus.

Name and Signature of Teacher (Dr. Annapurna. R. Alvikar)



Name and Signature of HoD

AVEKANAND COLLEGE, KOLHAPUR (EMPOWERED ALTONOMOLIC

Vivekanand College, Kolhapur

(An Empowered Autonomous Institute)

Department of Botany Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Annapurna Ram Alvikar

Programme: B.Sc. I

Semester: I

Subject: Botany

Course Title: Practical's

Month : November			Module/Unit:	Sub-units planned
Lectures	Practical's	Total		
· ··· :	02	02	****	2222
Month:	December		Module/Unit:	Sub-units planned
Lectures	Practical's	Total		
-	04	04	****	
Month :	January		Module/Unit:	Sub-units planned
	03	03	19444	
Month:	February		Module/Unit:	Sub-units planned
-	02	02	a nti ti	
Month : March			Module/Unit:	Sub-units planned
	02	02		

Name and Signature of Teacher (Dr. Annapurna, R. Alvikar) ESTD JUNE 1964 1964

Name and Signature of HoD
HEAD
DEPARTMENT OF BOTANY
TVEKANAND COLLEGE, KOLHAPUR

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Academic Year: 2025-2026

Name of the teacher: Dr. Priya Digambar Patil

Programme: B. Sc. III

Semester: V

Subject: Botany

Course Code and Title: DSC03BOT51: "Mycology and Plant pathology"

Month: July			Module/Unit:	Sub-units planned
Lectures	Practical (Paper 1: Plant Pathology)	Total	Unit 3: Plant Pathology	Introduction, Classification of plant diseases based on
04	2 2	06		Pathogens, Crops and Symptoms, Study of mechanism of infection in disease development (Biochemical changes),
Month: August		st	Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 2. Plant Pathalogu	Prevention and control of plant diseases,
04	04	08	Unit 3: Plant Pathology	Role of Quarantine, Significance of Plant Pathology
Mon	th: Septem	ber	Module/Unit:	Sub-units planned
05	04	09	Unit 4: Study of Diseases	A) Study of Fungal Diseases: 1. Phytomycetes: White rust of Crucifers 2. Ascomycetes: Powdery mildew of Cucurbits 3. Basidiomycetes: Corn Smut

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Мо	nth: Octo	ber	Module/Unit:	Sub-units planned
04	02	06	Unit 4: Study of Diseases	4. Deuteromycetes: Leaf spot (Tikka) disease of Groundnut B) Study of Bacterial Disease: Citrus Canker C) Study of Viral Disease: Yellow vein mosaic of Bhendi

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Name and Signature of Teacher

Name and Signature of HoD

Academic Year: 2025-2026

Name of the teacher: Dr. Priya Digambar Patil

Programme: B. Sc. II

Semester: III

Subject: Botany (Major)

Course Code and Title: 2DSC03BOT31: "Diversity of Cryptogams"

Month: July			Module/Unit:	Sub-units Planned
Lectures	Practicals	Total	Unit 4: Pteridophyta	Pteridophytes: Introduction
02		02		Distribution in India Methods of reproduction
Month: August		Module/Unit:	Sub-units Planned	
Lectures	Practicals	Total	Unit 4: Pteridophyta	Outline of classification according to Smith (1955)
04		04	V-1	Heterospory
		THE DESIGNATION OF THE RESIDENCE OF THE PERSON OF THE PERS		Study of example with reference to occurrence, plant body and life cycle of Selaginella
Month: September		Module/Unit:	Sub-units Planned	
03	-	03	Unit 4: Pteridophyta	Study of example with reference to occurrence, plan body and life cycle of Azolla

J. J. (Dv. P. D. Pat) Name and Signature of Teacher

ESTD JUNE 1984

Name and Signature of HoD

MELIUMO COLLEGE, ROLLINGUI TERRORETES AUTOMORIOUS

Academic Year: 2025-2026

Name of the teacher: Dr. Priya Digambar Patil

Programme: B. Sc. II

Semester: III

Subject: Botany (Minor)

Course Code and Title: 2MIN03BOT32: "Plant Taxonomy"

M	Ionth: July		Module/Unit:	Sub-units planned	
Lectures	Lectures Practicals Total 02 - 02		Section II: Unit 4: Taxonomic Literature	Flora, Manuals, Monographs e-flora, Revisions, Journals,	
02			Unit 4: Taxonomic Encrature	Periodicals	
Mo	onth: Augus	it	Module/Unit:	Sub-units planned	
Lectures			Unit 4: Taxonomic Literature	Reference Books, Research Paper, Websites and Catalogues	
04	5	04		Plant Families: Morphological, floral, distinguishing characters and economic importance of Family: Malvaceae	
Mon	th: Septem	ber	Module/Unit:	Sub-units planned	
03	•	03	Unit 4: Taxonomic Literature	Morphological, floral, distinguishing characters and economic importance of Family: Amaryllidaceae	

Name and Signature of Teacher

ESTD JUNE 1984 1984

Name and Signature of HoD

Academic Year: 2025-2026

Name of the teacher: Dr. Priya Digambar Patil

Programme: B. Sc. 1

Semester: I

Subject: Botany

Course Code and Title: 2DSC03BOT11: "Basic in Botany"

Month: July			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit 4: Organization of higher	Plant organs (Root, stem
03	01	04	plant body	Development of plant body (Seedling development)
Mo	onth: Augus	it	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit 4: Organization of higher plant body	Internal organization (Root, stem & leaf)
05	04	09	plant body	Study of tissue systems: Meristematic tissue, Simple and complex tissue
			Unit 3: Study of following examples with reference to occurrence, plant body and life cycle	Study of Algae: Nostoc
Mon	th: Septem	ber	Module/Unit:	Sub-units planned
05	04	09	Unit 3: Study of following examples with reference to occurrence, plant body and life cycle	Study of Fungi: Mucor Study of Bryophyte: Moss Funaria

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Month: October			Module/Unit:	Sub-units planned
04	04	08	Unit 3: Study of following examples with reference to occurrence, plant body and life cycle	Study of Pteridophyte: Pteris Study of Gymnosperm Cycas

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Name and Signature of Teacher

Name and Signature of HoD

DEPARTMENT OF BOTTOMY
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(EMPONIES AUTOMOUS)

Academic Year: 2025-2026

Name of the teacher: Dr. Priya Digambar Patil

Programme: B. Sc. II

Semester: III

Subject: Botany

Course Code and Title: 20EC03LFS31: "Advanced Entrepreneurship in Botany-I"

M	lonth: Augus	t	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	i e	-
	02	02		
Month: September			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
	04	04		
Month: October		er	Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
	02	02		

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Name and Signature of Teacher

(Dr. P. D. Patil)

ESTD JUNE 1964

Name and Signature of HoD

Academic Year: 2025-2026

Name of the teacher: Dr. Priya Digambar Patil

Programme: B. Sc. III

Semester: VI

Subject: Botany

Course Code and Title: DSC03BOT562: "Cytology and Genetics"

Month: November		er	Module/Unit:	Sub-units planned	
Lectures	Practical (Paper III: ures Molecular Total Biology & Biotechnology) Unit 1: Cell as a unit of life		Introduction, The cell theory		
02	01	03			
Month: December		er	Module/Unit:	Sub-units planned	
Lectures	Practical	Total		Cell size and shape	
05	03	Unit 1: Cell as a unit of life	Models of membrane structure		
			The functions of membrane		
N	Ionth: January	y	Module/Unit:	Sub-units planned	
05	04	09	Unit 1: Cell as a unit of life	Cell cycle Apoptosis	
			Unit 2: Cell Organelles	Introduction	
				Cell organelles-	
				Plastids	
			¥	Endoplasmic reticulum	
				Ribosomes	
				Golgi complex Mitochondria	
			II.	ivittoenondria	



Month: February			Module/Unit:	Sub-units planned
04	02	05	Unit 2: Cell Organelles	Cell organelles- Lysosomes Centrosome Cilia and flagella Microbodies (Glyoxysomes & Preoxisomes) Vacuoles Nucleus Chromosomes

Name and Signature of Teacher (Do. Priya D. Patil)



Name and Signature of HoD

Academic Year: 2025-2026

Name of the teacher: Dr. Priya Digambar Patil

Programme: B. Sc. II

Semester: IV

Subject: Botany (Major)

Course Code and Title: 2DSC03BOT41: "Resource Botany"

Month: December		er	Module/Unit:	Sub-units Planned
Lectures	Practicals	Total	Unit 1: Forest as Potential	Introduction and Scope
04		04	Resource	Major forest produce
Мо	nth: Januar	ту	Module/Unit:	Sub-units Planned
Lectures	Practicals	Total	Unit 1: Forest as Potential	Uses: Gum, Resin, Tannin and
04	-	04	Resource Unit 2: Plant resources used in cosmetics, aromatics and pharmaceuticals	Pigments Introduction and Scope Herbal preparations
Mor	nth: Februa	ry	Module/Unit:	Sub-units Planned
03	•	03	Unit 2: Plant resources used in cosmetics, aromatics and pharmaceuticals	Methods of extraction- Maceration Digestion Decoction Aromatic waste Extracts and tinctures
Mo	onth: March	1	Module/Unit:	Sub-units Planned
04		04	Unit 2: Plant resources used in cosmetics, aromatics and pharmaceuticals	Study of Aloe, Heena, Lemon grass, Rose, Jasmine, Turmeric, Ginger, Neem, Holy basil, Amla

Name and Signature of Teacher (Dr. Priya D. Patil) ESTD JUNE 1964 1964

Name and Signature of HoD

Academic Year: 2025-2026

Name of the teacher: Dr. Priya Digambar Patil

Programme: B. Sc. 1

Semester: II

Subject: Botany

Course Code and Title: 2DSC03BOT22: "Diversity and conservation of Plants"

Mon	th: Decemb	er	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit III: Plant Diversity	Introduction and Definition
04	03	0₹		Types of diversity
Month: January		ry	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit III: Plant Diversity	Importance of diversity
04	04	80		Threats of diversity
				Magnitude of diversity
Мо	nth: Februa	ary	Module/Unit:	Sub-units planned
03	04	97	Unit IV: Conservation of Plant Diversity	Introduction and definition
				Types of conservation (In situ and Ex situ)
Month: March		:h	Module/Unit:	Sub-units planned
02	03	05	Unit IV: Conservation of Plant Diversity	Necessity of conservation

Name and Signature of Teacher

ESTD JUNE 1964 1964

Name and Signature of MoD

Academic Year: 2025-2026

Name of the teacher: Dr. Priya Digambar Patil

Programme: B. Sc. II

Semester: IV

Subject: Botany

Course Code and Title: 2OEC03LFS41: "Advanced Entrepreneurship in Botany-II"

Mo	nth: Decemb	er	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	s×	
	02	02		
Month: Jamuary			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	.##:	
**	04	04		
Mo	onth: Februa	ry	Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
-	03	02		
Month: March			Module/Unit:	Sub-units planned
152	02	02	**	

Name and Signature of Teacher (Dr. Poiya D. Patil)

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Name and Signature of

Academic Year: 2025-2026

Name of the teacher: Dr. Mrunalini Nilesh Desai

Programme: B. Sc. I

Semester: I

Subject: Botany

Course Title: IKS03GEC11: Indian Knowledge System and

2DSC03BOT19DSC Botany lab-1

Month: August			Module/Unit:	Sub-units planned	
Lectures	Practicals	Total	Unit-1: Introduction to Ayurveda.	1a. Ayurvedic medicinal system	
04	04	08		Principles of Ayurveda (Vata, Pitta, Kapha) 1c. i yurvedic therapies	
Month: September		er	Module/Unit:	Sub-units planned	
Lectures	Practicals	Total	Practical - II	1d. Unani system of medicine 1e. Siddha system of medicine	
02	04	06	,		
Мо	nth: Octobe	er	Module/Unit:	Sub-units planned	
04	04	08	Practical - II	1d. Unani system of medicine 1e. Siddha system of medicine 1f. Future of herbal drugs 1g. Study of medicinal plants- Punamava, Vasaka, Shatavar, Brahmi and Arjuna	
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Name and Signature of Teacher

(Dr. M.N. Desai)

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DEPARTMENT OF BOTANY
VEXAN AND COLLEGE, KOLHAPUR

Academic Year: 2025-2026

Name of the teacher: Dr. Mrunalini Nilesh Desai

Programme: B. Sc. II (Major)

Semester: V

Subject: Botany

Course Title: 2DSC03BOT32: Diversity of Phanerogams

Practical:- MIN-PR-I: 2MIN03BOT39: MIN-Botany Lab-3

Month: July			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Gymnosperms: ` Outline of classification system	Introduction, Distribution of
02	02	04	According to Sporne (1965),	Gymnosperms in India, Methods of Reproduction,
Month: August		t	Module/Unit:	Sub-units planned
Lectures 04	Practicals 04	Total 08		Outline of classification system According to Sporne (1965), Study of example with reference to occurrence, plant body and life cycle of <i>Pinus</i>
Month: September		er	Module/Unit:	Sub-units planned
04	04	08		Study of example with reference to occurrence, plant body and life cycle of <i>Gnetum</i>

Name and Signature of Teacher

. M. N. Desai)

ESTD JUNE 1964

Name and Signature of HOD

TVEKANAND COLLEGE, KOLHAPI

Academic Year: 2025-2026

Name of the teacher: Dr. Mrunalini Nilesh Desai

Programme: B. Sc. III

Semester: V

Subject: Botany

Course Title: DSC03BOT52: Plant Ecology"

Month: July		Module/Unit:	Sub-units planned		
Lectures	Practical	Total		Introduction and definition of Ecology Ecological Factors: Edaphic Factors – Soil	
04		04	Unit 1 Introduction to Ecology	origin and formation, Composition of so water, soil air, soil temperature, soil organi matter and soil microbes. Climatic factors — Light, Temperature Precipitation, Atmospheric humidity an Rainfall.	
Month: August		Module/Unit:	Sub-units planned		
Lectures	Practical	Total		Ecological Adaptations – Hydrophyte Xerophytes, Epiphytes and Parasites. Soil Pollution – Preventive and Curati	
04	02	06		methods.	
Mon	th: Septemb	er	Module/Unit:	Sub-units planned	
03	02	05	Unit II: Ecological Succession and Interaction	Introduction, Process of succession, Types of succession- Hydrosere, Xerosere. Introduction of ecological interaction. Intra-specific interaction – Co- operation, Communication,	
Month: October		Module/Unit:	Sub-units planned		
04	02	06		Competition. Inter-specific interaction – Symbiosis. Commensalism, Parasitism and Predation.	

Name and Signature of Teacher

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ESTD JUNE 1964

Name and Signature of HOD

DEPARTMENT OF BOTANY
TVEKANAND COLLEGE, KOLHAPUTE
TARPOWERED AUTONOMOUS

Department of Botany **Annual Teaching Plan**

Academic Year: 2025-2026

Name of the teacher: Dr. Mrunalini Nilesh Desai

Programme: B. Sc. III

Semester: VI

Subject: Botany

Course Title: DSE03BOT61: "Herbal Technology"

Month: November			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit I: Herbal Medicine	1a.Defination of herbal medicine 1b. History and scope
02		02		
Mon	th: Decemb	er	Module/Unit:	Sub-units planned
Lectures	Practical Total			1c. Role of medicinal plants in Ayurveda
04		04	Unit I: Herbal Medicine	1d. Importance of herbal medicine 1e. Herbal drug industries
Mo	nth: Janua	ту	Module/Unit:	Sub-units planned
04		04	Unit II: Pharmacognosy	1a. History and definition 1b. Importance of Pharmacognosy
Mon	th: Februa	ry	Module/Unit:	Sub-units planned
04	-	04	Unit II: Pharmacognosy ESTD JUNE 1964	1c. Study of techniques of Pharmacognosy 1d. Role of Pharmacognosy in medicines

(Dr. Mrunalin N. Desa

DEPARTMENT OF BOTANY VIVEKANAND COLLEGE, KOLHAPU-TAPOWERED AUTONOMONTO

Academic Year: 2024-2025

Name of the teacher: Dr. Mrunalini Nilesh Desai

Programme: B. Sc. II

Semester: IV

Subject: Botany

Course Title: DSC-VIII: DSC03BOT42 "Industrial Botany"

Mo	nth: Januar	y	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	"Industrial Botany"	Seed production
02		02	Unit IV: Importance of Seed Industry	
Month: February			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	"Industrial Botany"	Seed processing and Marketing
02		02	Unit IV: Importance of Seed Industry	Marketing
M	onth: Marc	h	Module/Unit:	Sub-units planned
01	-	01	"Industrial Botany"	Major seed industries and corporation of
			Unit IV: Importance of Seed Industry	India

Name and Signature of Teacher

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Name and Signature of HOD

DEPARTMENT OF BOTANY VIVEKANAND COLLEGE, KOLHAPUF (EMPOWERED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Dr. Mrunalini Nilesh Desai

Programme: B. Sc. 1 Semester: II

Subject: Botany

Course Title: DSC BOT- PR-II: DSC03BOT19: DSC BOTANY LAB- 2

Mor	ith: Decemb	er	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Practical - II	
	02	02		
Month: January			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Practical - II	
	05	05		
Moi	nth: Februa	гу	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Practical - II	
	04	04		
Month: March		Module/Unit:	Sub-units planned	
Lectures	Practicals	Total	Practical - II	
	02	02		

JUNE 1964

Name and Signature of Teacher

(Dr. Mrunalini N-Desai)

Name and Signature of HOD

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPTIR
(EMPOWERED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Dr. Mrunalini Nilesh Desai

Programme: B. Sc. II Semester: IV Subject: Botany

Course Title: MIN03BOT41 and MIN03BOT42

	Month: Janu	ary	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	-	
	04	04		
Month: February			Module/Unit:	Sub-units planned
	03	03		44
Month: March			Module/Unit:	Sub-units planned
**	04	04	_	

Name and Signature of Teacher

(Dr. Mrunalini N. Desai)

ESTD JUNE 1964

Name and Signature of HOD

VIVEKANAND COLLEGE, KOLHAPU (EMPOWERED AUTONOMOUS)

Department of Botany Academic Year: 2024-2026 Annual Teaching Plan

Name of the teacher: Dr. Snehal Sanjay Wadkar

Programme - B. Sc. 1

Semester- I

Subject: Botany

Course Title: DSC-I: 2DSC03BOT11: Basic in Botany

Month - July			Module/Unit:	Sub-units planned
Lectures 03	Practicals 04	Total 05	Unit -1: Importance of Plant	Role of plants in human welfare (Direct and indirect) Role of plants in ecological services.
Mo	nth – Augus	t	Module/Unit:	Sub-units planned
Lectures 03	Practicals 04	Total 07	Unit -1: Importance of Plant	Role of plants in ecological services. Evolutionary history of plants.
			Unit -2: General outline of Plant Kingdom	Introduction
Month- September		er	Module/Unit:	Sub-units planned
03	04	07	Unit -2: General outline of Plant Kingdom	Study of classification of point kingdom

Month- October			Modules/Unit	Sul-units planned
Lectures	Practicals	Total	Unit -2: General outline of	Study of five divisions with respect to characters
05	04	09	Plant Kingdom	and economic importance

(Dr. Snehal S. Wadkar)

Name and Signature of Teacher

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VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)



Department of Botany Academic Year: 2024-2026 Annual Teaching Plan

Name of the teacher: Dr. Snehal Sanjay Wadkar

Programme - B. Sc. II (Major)

Semester- III

Subject: Botany

Course Title: DSC-VI: 2DSC03BOT32: Diversity of Phanerogams

N	Aonth - July		Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit -1	Introduction
02	00	03	Phanerogams	Introduction
Month - August		st	Module/Unit:	Sub-units planned
Lectures	Practicals	Total		Characters of Gymnosperms
03	00	03	Unit -1 Phanerogams	Characters of Angiosperms
Month -September		Module/Unit:	Sub-units planned	
02	00	02		Distinguishing characters of
			Unit -1 Phanerogams	Gymnosperms and Angiosperms.

(Dr. S. S. Wodkar)

Name and Signature of Teacher

Name and Signature of HOD



Department of Botany Academic Year: 2024-2026 Annual Teaching Plan

Name of the teacher: Dr. Snehal Sanjay Wadkar

Programme - B. Sc. II (Minor)

Semester- III

Subject: Botany

Course Title: Practical - I (Based on Paper 2MIN03BOT31 and Paper2MIN03BOT32)

Month – July			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
•	02	02	Practical - I	Based on Paper 2MIN03BOT31 and Paper2M.N03BOT32
Мо	onth – Augus	st	Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
•	04	04	Practical - I	Based on Paper 2MIN03BOT31 and Paper2MIN03BOT32
Month- September		Module/Unit:	Sub-units planned	
Lectures	Practicals	Total	i i	Based or Paper
-	03	03	Practical - I	2MIN03BOT31 and Paper2MIN03BOT32

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(Dr. S. S. Wadkar)

Name and Signature of Teacher

Name and Signature of HOD
VIVEKANAND COLLEGE, HOLHAPUR
GMOOMERED AUTOMORIOUS)

Department of Botany Academic Year: 2024-2026 Annual Teaching Plan

Name of the teacher: Dr. Snehal Sanjay Wadkar

Programme - B. Sc. III (Major)

Semester- V

Subject: Botany

Course Title- DSE-I: DSE03BOT51; Plant Physiology and Metabolism & Practical - II Study of Plant Ecology

Month - July			Module/Unit:	Sub-units planned	
Lectures 04	Practicals	Total 04	Unit- 3 Photosynthesis	Introduction, site of photosynthesis.	
Мо	nth – Augus	t	Module/Unit:	Sub-units planned	
Lectures 04	Practicals 04	Total 08	Unit- 3 Photosynthesis & Practical - II	Photosynthetic pigments, Mechanism of photosynthesis,	
Mont	h-Septembe	r	Module/Unit:	Sub-units planned	
03	04	07	Unit- 3 Photosynthesis & Practical - II	Light reaction, Dark reaction (C3, C4, CAM pathway of carbon fixation).	
Mont	h- October		and the last		
01	03	04	STO COLLEGE TORE	CAM pathway, Significance.	

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Photosynthesis	
&	
Practical - II	

(Dr. S.S. Wadkar)
Name and Signature of Teacher

HEAD
VIVEKANAND COLLEGE, KOLHAPVIR



Department of Botany Academic Year: 2024-2026 Annual Teaching Plan

Name of the teacher: Dr. Snehal Sanjay Wadkar

Programme - B. Sc. III(Minor)

Semester- V

Subject: Botany

Course Title- MIN-IX: MIN03BOT51: Plant Pharmaceutical Industry

Month - July			Module/Unit:	Sub-units planned	
Lectures 04	Practicals	Total 04	Unit 1 Classification of Crude	Morphological characters- Organized – Flowering plants,	
			drugs	leaves, barks, root, rhizome, wood,hair: fibres, fruits, seed. Unorganized - Dried latex, juice, gums, resins, fats, wax, volatile oil	
Month – August		st	Module/Unit:	Sub-units planned	
Lectures	Practicals	Total		Chemical classification- Carbohydrates, glycosides,	
02	•	02	Unit 1 Classification of Crude drugs	tannins, volatile oils, lipids, resins, alkaloids,proteins, vitamins.	
Mon	Month-September Module/Unit:		Sub-units planned		
03	-	03	Unit 1 Classification of Crude drugs	Based on pharmacological action- Anticancer, anti- inflammatory, antiamoebic, anthelmintic, antispasmodic, astringent, bitter tonic,	



				expectorant, CNS and Cardiotonic.
Month- October		er	Module/Unit:	Sub-units planned
01	•	01	Unit 1 Classification of Crude drugs	Revision

(Dr. S.S. Wadkar) Name and Signature of Teacher

Name and LEADire of HOD
DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR



Academic Year: 2025-2026

Name of the teacher: Dr. Snehal Sanjay Wadkar

Programme: B. Sc. 1

Semester: II

Subject: Botany

Course Code and Title: DSC-IV: 2DSC03BOT22: "Diversity and Conservation of Plants"

Mon	th: Decemb	er	Module/Unit:	Sub-units planned			
Lectures	Practicals	Total	Unit 1:	Introduction and definition, Ranks of classification. Study			
03	03	06	Study of classification systems	of five kingdom classification system (R. H. Whittaker). Study of general characters of each kingdom			
Мо	nth: Januar	ту	Module/Unit:	Sub-units planned			
Lectures	es Practicals Total		THE PROPERTY OF THE PROPERTY O		Unit 1: Study of classification systems	Study of five kingdom classification system (R. H. Whittaker),	
05	05	10		Williams,			
Month: February		ry	Module/Unit:	Sub-units planned			
Lectures	Practicals	Total	Unit 1:	Study of general characters of			
04	04	Study of classification	Study of classification systems	each kingdom			
04		- 00	Unit 2:	Study of three domains of life			
			Domains of Life	- Archaea			
Month: March		h	Module/Unit:	Sub-units planned			
Lectures	Practicals	Total	Unit 2:	Study of three domains of life - Bacteria and Eukarya.			
02	-	02	Domains of Life	(Study of general character of each)			

Name and Signature of Teacher

Dr. snehal s. Wadkar

ESTD JUNE 1964 1964

Names and Signature OTAPPO VIVEKANAND COLLEGE, KOLJAPPO VIVEKAND COLLEGE, KOLJAPPO VIVEKAN

Academic Year: 2025-2026

Name of the teacher: Dr. Snehal Sanjay Wadkar

Programme: B. Sc. II

Semester: IV

Subject: Botany (Major)

Course Code and Title: DSC-VII: 2DSC03BOT41: "Resource Botany"

Month: December			Module/Unit:	Sub-units Planned	
Lectures	Practicals 02	Total 04	Unit 3: Floricultural Industry	Introduction to floriculture, Cultivation practices, Harvesting and marketing	
02 Mo	nth: Januar	81	Module/Unit:	of Rose Sub-units Planned	
Lectures	Practicals	Total	Unit 3: Floricultural Industry	Cultivation practices, Harvesting and marketing of Gerbera.	
04	04	08	Unit 4: Bio- fuel Technology	Introduction and advantages, Concept of Bio-fuel and its need	
Month: February		ıry	Module/Unit:	Sub-units Planned	
Lectures	Practicals	Total	Unit 4:	Plants used for Bio-fuel	
03	03	06	Bio-fuel Technology:	production, Biodiesel production from Castor	

Name and Signature of Teacher

(Dr. Snehal S. Wadkar

ESTD JUNE 1964 1964

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VIVEKANAND COLLEGE NOLL MOVEM
CEMPOWERED AUTONOMOLIS

Academic Year: 2025-2026

Name of the teacher: Dr. Snehal Sanjay Wadkar

Semester: IV Programme: B. Sc. II

Subject: Botany (Minor)

Course Code and Title: MIN-PR-II:2MIN03BOT49: MIN- Botany

Month: December			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Practical – II	Practical – II
÷	02	02		
Month: January		y	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Practical – II	Practical – II
٠	04	04		
Month: February		ry	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Practical – II	Practical – II
N=	04	03		

Name and Signature of Teacher

or. Snebals. Wadtar

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Name and Brown ure of HoD DEPARTMENT OF BOTANY

VIVEKANAND COLLEGE, HOLIAPUR TMPOWERED AUTONOMOUS

Academic Year: 2025-2026

Name of the teacher: Dr. Snehal Sanjay Wadkar

Programme: B. Sc. III

Semester: VI

Subject: Botany (Major)

Course Code and Title: DSE-II: DSE03BOT61: "Herbal Technology"

Mont	th: Novemb	er	Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 3:	History and definition, Importance of phytochemicals
03	02	05	Phytochemistry	projection in the second
Month: December		ber	Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 3: Study of different of phytochemica	
04	04	08	Phytochemistry	of different methods of testing of active chemicals.
Mo	nth: Janua	ry	Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 4:	Study of secondary metabolites, Drug
04	04	08	Analytical Pharmacognosy	adulteration.
Мо	nth: Febru	ary	Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 4:	Types of drug adulteration, Methods of
03	03	06	Analytical Pharmacognosy	drug evaluation.

Name and Signature of Teacher

(Dr. Snehal S. Wadkar

ESTD JUNE 1964

Name and Signature of HoD

VIVERANAND COLLEGE WOLLAPUR

Academic Year: 2025-2026

Name of the teacher: Dr. Snehal Sanjay Wadkar

Programme: B. Sc. III (Minor) Semester: VI

Subject: Botany

Course Code and Title: MIN-X: MIN03BOT61: "General Agriculture"

Mon	th: Novemb	er	Module/Unit:	Sub-units planned	
Lectures 02	Practical -	Total 02	Unit 4: Modern approaches in agriculture	Green house technology,	
Month: December		ber	Module/Unit:	Sub-units planned	
Lectures	Practical	Total	Unit 4:		
03	-	03		Transgenic crops, Integrated Pest Management,	
Мо	nth: Janua	ry	Module/Unit:	Sub-units planned	
Lectures	Practical	Total	Unit 4:	E	
04	04	08	Modern approaches in agriculture	Forecasting and Bio pesticide Revision	

Name and Signature of Teacher

Dr. Snehal S. Wadtar

ESTD JUNE 1964

Name and Signature of HoD

DEPARTMENT OF BOTANY

VIVEKANAND COLLEGE, KOLHAPUR

TEAROWERED AUTONOMOUS

Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of Botany

Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Priyanka Pravin Jadhav

Programme: B. Sc. I. (Minor)

Semester: III

Subject: Botany

Course Title: MIN-1:2MIN03BOT31: Plant Biotechnology and Molecular Biology.

Practical:- MIN-PR-I: 2MIN03BOT39: MIN-Botany Lab-3

Month: July			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit 1 Genetic Material	Introduction Nucleic acids (DNA and RNA)
02	02	04		¥
Month: August		it	Module/Unit:	Sub-units planned
Lectures 04	Practicals 04	Total		Griffth's and Avery's transformation experiment, Harshey – Chase bacteriophage experiment,
Mon	th: Septeml	oer	Module/Unit:	Sub-units planned
04	04	08		DNA structure and Types of DNA, DNA replication, RNA structure and types of RNA.

Name and Signature of Teacher Dr. Priyanka Pravin Jadhav

Name and Signature of HOD

Dr. B.T. Danga HEAD

(EMPOWERED AURILIOMOUS)

Department of Botany Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Priyanka Pravin Jadhav

Programme: B. Sc. III (Major) Semester: V

Subject: Botany

Course Title: DSE03BOT51: Plant Physiology and Metabolism

Practical - IV Plant Physiology and Metabolism

Month: July		Ionth: July Module/U		Sub-units planned
Lectures	Practical	Total		Introduction, site of respiration, types of respiration, fermentation, mechanism of
04	-#	04	Unit 4 'Respiration	respiration
Month: August		Module/Unit:	Sub-units planned	
Lectures	Practical	Total		
04	02	06		Glycolysis, link reaction, Krebs cycle, ETS in mitochondria, Significance and Respiratory ratio.
Mon	th: Septe nl	oer	Module/Unit:	Sub-units planned
03	02	05	Plant Metabolism:	Carbohydrate, Fat (Lipid) metabolism with reference to properties, classification and importance
Month: October		Module/Unit:	Sub-units planned	
04	02	06		Protein metabolism with reference to properties, classification and importance

Name and Signature of Teacher Dr. Priyanka Pravis Jadhay



Name and Signature of HOD Dr. B.T. Dangat

DEPARTMENT OF BOTANY
VIVENMAND COLLEGE, KOLHAPCEMPONEMED ANTONOMOUS

Department of Botany Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Priyanka Pravin Jadhav

Programme: B. Sc. III (Minor)

Semester: V

Subject: Botany

Course Title: MIN03BOT51: Plant Pharmaceutical Industry

Month: July		Module/Unit:	Sub-units planned		
Lectures	Practical	Total			
02	-	Unit 2 Drug Constituents,		Carbohydrates, glycosides,	
Month: August		st	Module/Unit:	Sub-units planned	
Lectures	Practical	Total			
04	-	04		Saponins, anthraquinone derivatives, lipids, fats and waxes	
Mor	th: Septem	ber	Module/Unit:	Sub-units planned	
03		04		Volatile oils ,resi is, tannins, alkaloids,	
Month: October		er	Module/Unit:	Sub-units planned	
04	- Jh	04		Enzymes, microorganisms, marine products vitamins, antibiotics and miscellaneous.	

Name and Signature of Teacher Dr. Priyanka Pravin Jadhav

ESTD JUNE 1984 1984

Name and Signature of HOD

Dr. B.T. Dangay

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUS
EMPOWERED AUTONOMOUS

Department of Botany Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Priyanka Pravin Jadhav

Programme: B. Sc. I

Semester: I

Subject: Botany

Course Title: 2DSC03BOT19DSC Botany lab-1

Month: A	Month: August		Module/Unit:	Sub-units planned	
Lectures	Practicals	Total			
•	04	04			
Month: September		ber	Module/Unit:	Sub-units planned	
Lectures	Practicals	Total			
=	04	04			
Month: October		Module/Unit:	Sub-units planned		
	04	04			

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Name and Signature of Teacher Dr. Priyanka Pravin Jadhav

ESTD JUNE 1964

Name and Signature of HOD

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Dr. B.T. Dangat

VIVEKANAND COLLEGE, KOLHAP' (EMPOWERED AUTONOMOUS

Academic Year: 2025-2026

Name of the teacher: Dr. Priyanka Pravin Jadhav

Programme: B. Sc. II (Major)

Semester: IV

Subject: Botany

Course Title: DSC-VIII: 2DSC03BOT42: Industrial Botany

Month: N	lovember		Module/Unit:	Sub-units planned		
Lectures	Practicals	Total	Unit no. 1 Physical characteristics of	Methods of seasoning and chemical treatment of specialize		
02		02	Indian Woods:	use, Fire proofing of the wood, Industial manufacturing of packing material and plywood, the Classification of plywoods according to their use.		
Month: December		er	Module/Unit:	Sub-units planned		
Lectures	Practicals	Total		Some important commercial woods - Dalbergia sp., Shorea		
04		04		robusta Tectona grandis, Cedrus deodara, Bamboo - the "Green Gold of India."		
Mo	nth: Januar	y	Module/Unit:	Sub-units planned		
04		04		Manufacturing of paper and board from raw plant material Manufacturing of crude and high quality paper, recycled paper.		
Month: February		у	Module/Unit:	Sub-units planned		
04		04	Unit 3 Sources of natural dyes	Sources of natural dyes in India and their extraction methods, merits and limitations of plant based dyes		

Name and Signature of Teacher Dr. P. P. Jadhav

ESTD JUNE 1964

Name and Signature of HOD

Dr. B.T. Dangat

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
TEMPOWERED AUTONOMOUSI

Academic Year: 2025-2026

Name of the teacher: Dr. Priyanka Pravin Jadhav

Programme: B. Sc. III (Major)

Semester: VI

Subject: Botany

Course Title: DSE-II: DSE03BOT61: Research Technique in Botany

Practical: - Practical: IV Research Technique in Botany

Month: N	ovember		Module/Unit:	Sub-units planned	
Lectures	Practical	Total	T	Introduction to research Meaning of research,	
04	04	08	Unit 1 Introduction to research	its importance, aims and objectives, Criteria of selecting a research problem, Literature collection,	
Month: December		oer	Module/Unit:	Sub-units planned	
Lectures	Practical	Total			
04	04	08		Methodology (Experimental design/ Field data collection), Scientific paper writing- Manuscript preparation and presentation, Research journals, Impact factor and paper citationindex.	
Mo	nth: Janua	ry	Module/Unit:	Sub-units planned	
04	04	08	Unit2 Research institutes related to India, A brief idea about government		
Month: February		Module/Unit:	Sub-units planned		
03	03	06		Funding agencies as DST, DBT, ICAR, ICMR, CSIR, UGC, CST, BSI etc., IPR and Patenting	

Name and Signature of Teacher Dr. P. P. Jadhav ESTD JUNE 1964

Name and Signature of HOD Dr. B.T. Daugat

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
(FMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of Botany

Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Priyanka Pravin Jadhav

Programme: B. Sc. III (Minor)

Semester: VI

Subject: Botany

Course Title: B.Sc. III MIN03BOT61: General Agriculture

ovember		Module/Unit: Sub-units planned			
Practical	Total		Study of weeds Definition, characters of weed,		
	04	Unit 2 Study of weeds			
Month: December		Module/Unit:	Sub-units planned		
Practical	Total		Harmful and beneficial effect of weed, Classification of weed,		
-	04				
Month: January		Module/Unit:	Sub-units planned		
	04	Plant Metabolism:	Study of parasitic, aquatic, poisonous and noxious weed with any two suitable example,		
Month: February		Module/Unit:	Sub-units planned		
-	04		Method of weed management (Mechanical, Biological, Chemical)		
	rth: December Practical	Practical Total 04 th: December Practical Total 04 nth: January 04 nth: February	Practical Total 04 th: December Module/Unit: Practical Total 04 nth: January Module/Unit: 04 Plant Metabolism: nth: February Module/Unit:		

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Name and Signature of Teacher Dr. P. P. Jadhav ESTD JUNE 1964 1964

Name and Signature of HOD Dr. B.T. Dangat

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of Botany

Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Dr. Priyanka Pravin Jadhav

Programme: B. Sc. II (Minor) Semester: IV

Subject: Botany

Course Title: MIN03BOT49 MIN-Botany Lab- 4

Month: November		Module/Unit:	Sub-units planned		
Lectures	Practical	Total			
	04	04			
Month: December		Module/Unit:	Sub-units planned		
Lectures	Practical	Total			
	04	04			
Month: January		Module/Unit:	Sub-units planned		
	04	04			
Month: February		Module/Unit:	Sub-units planned		
	04	04			

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Name and Signature of Teacher Dr. P. P. Jadhay

Name and Signature of HOD

Dr. B.T. Dangat

HEAD **DEPARTMENT OF BOTANY** VIVEKANAND COLLEGE, KOLHAPOR TEMPOWERED AUTONOMOUS!

Academic Year: 2025-2026

Name of the teacher: Dr. Priyanka Pravin Jadhav

Programme: B. Sc. 1 Semester: II

Subject: Botany

Course Title: 2DSC03BOT19DSC Botany lab-11

Month: November			Module/Unit:	Sub-units planned	
Lectures	Practical	Total			
	04	04			
Month: December		Module/Unit:	Sub-units planned		
Lectures	Practical	Total			
	04	04			
Мо	nth: Januar	у	Module/Unit:	Sub-units planned	
	04	04			
Month: February		Module/Unit:	Sub-units planned		
	04	04			

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Name and Signature of Teacher Dr. P. P. Jadhav Name and Signature of HOD

Dr. B.T. Dangat

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Ms. Aishwarya Anandarav Bogare

Programme: B. Sc. III

Semester: V

Subject: Botany

Course Code and Title: DSC03BOT52: "Plant Ecology"

M	Ionth: July		Module/Unit:	Sub-units planned
Lectures 04	02	Total 06	Unit 3: Ecosystem	Introduction and structure, Composition-Biotic and Abiotic Energy flow trophic organization.
Me	onth: Augus	t	Module/Unit:	Sub-units planned
Lectures Practical Total 04 02 06		a and	Unit 3: Ecosystem	Food chain and food webs. Ecological pyramids, Production and productivity. Types of Ecosystem.
Month: September		ber	Module/Unit:	Sub-units planned
04	01	05	Unit 4: Biogeochemical cycles and Phytogeography	Biogeocghemical cycles- Introduction, Phosphorus and Nitrogen cycle.
Me	onth: Octob	er	Module/Unit:	Sub-units planned
03	01	04	Unit 4: Study of Diseases	Phytogeography- Introduction, Phytogeographical regions(As per Chattejii

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(Miss. A. A. Boquec)
Name and Signature of Teacher



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(EMPOWERED AUTONOMONO

Academic Year: 2025-2026

Name of the teacher: Ms. Aishwarya Anandarav Bogare

Programme: B. Sc. II

Semester: III

Subject: Botany (Major)

Course Code and Title: 2DSC03BOT31: "Diversity of Cryptogams"

N	Month: July		Module/Unit:	Sub-units Planned		
Lectures	Practicals	Total	Unit 2: Fungi	Fungi-Introduction ,Habit(T/pes of Mycelium)		
02	01	03		Mode of nutrition. Methods of reproduction.		
Month: August		Module/Unit:	Sub-units Planned			
Lectures	Practicals	Total	Unit 2: Fungi	Outline of classification according to Alexopoulous and		
02	01	03		Mims.		
Month: September		Module/Unit:	Sub-units Planned			
03	01	04.	Unit 2: Fungi	Study of example with reference to occurrence, plant body and life cycle of Rhizopus, Puccinia		

(Miss A A Bogare Name and Signature of Teacher

ESTD JUNE 1964

Name and Signature of HoD

DEPARTMENT OF BOTANY
JIVEKANAND COLLEGE, KOLHAPUR
JEMPOWERED AUTONOMOUS

Academic Year: 2025-2026

Name of the teacher: Ms. Aishwarya Anandarav Bogare

Programme: B. Sc. 11

Semester: III

Subject: Botany (Minor)

Course Code and Title: 2MIN03BOT31: "Plant Biotechnology and Molecular Biology"

Month: July		uly Module/Unit:		Sc 5-units planned		
Lectures	Practicals	Total	Section II:	An overview of the PCR		
02	*	02	Unit 4: Gene Amplification	technique, its principles		
Mo	onth: Augus	t	Module/Unit:	Sub-units planned		
Lectures	Practicals	Total	Unit 4: Gene	Mechanism of DNA amplification.		
02		02	Amplification			
Month: September		Module/Unit:	Sub-units planned			
02	. 73	02	Unit 4: Gene Amplification	Types of PCR, Applications in healthcare, forensics, biotechnology.		

(Miss. A. A. Bogare)
Name and Signature of Teacher

ESTD JUNE 1964

Name and Signature of HoD

DEPARTMENT OF BOTANY

Academic Year: 2025-2026

Name of the teacher: Ms. Aishwarya Anandarav Bogare

Programme: B. Sc. 1

Semester: I

Subject: Botany

Course Code and Title: 20EC03LFS11: "Herbal Cosmetics-I"

Su	Module/Unit:		Month: August		
	***	Total	Practicals	Lectures	
		02	02		
Su	Module/Unit:	•	Month: September		
		Total	Practicals	Lectures	
		04	04	**	
Su	Module/Unit:		Month: October		
		Total	Practicals	Lectures	
	: -	03	03		

Miss. A. A. Bogare)
Name and Signature of Teacher



Name and Signature of HoD

DEPARTMENT OF BOTANY

Academic Year: 2025-2026

Name of the teacher: Ms. Aishwarya Anandarav Bogare

Programme: B. Sc. I

Semester: I

Subject: Botany

Course Code and Title: DSC03BOT19

Sub-units planned	Module/Unit:	t	Month: August		
		Total	Practicals	Lectures	
		02	02	-	
Sub-units planned	Module/Unit:	Month: September			
		Total	Practicals	Lectures	
	_	03	03		
Sub-units planned	Module/Unit:	Month: October			
		Total	Practicals	Lectures	
***		03	03		

Miss . A. A. Bogate)
Name and Signature of Teacher

ESTD JUNE 1964

Name and Signature of HoD
DEPARTMENT OF BOTANY
VEKANAND COLLEGE, KOLHAPUR

Academic Year: 2025-2026

Name of the teacher: Miss. Aishwarya Anandarav Bogare

Programme: B. Sc. III

Semester: VI

Subject: Botany

Course Code and Title: DSC03BOT62: "Cytology and Genetics"

Month: November		er	Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 3: Genetics	Introduction and importance,
03	00	03		Terminologies.
Month: December		oer	Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 3: Genetics	Laws of Inheritance (Monohybrid and
04	00	04		Dihybrid), Multiple allelism.
Month: January		ry	Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 4: Linkage and Crossing	Linkage-Concept, history and types of linkage,
03	00	03	over	Crossing over- Concept and significance.
Month: February		ary	Module/Unit:	Sub-units planned
Lectures	S Practical Total Unit 4: Linkage and Crossing		Linkage maps, Extra chromosomal genome,	
04	00	over		Plastid inheritance and mitochondrial inheritance.

(Miss. A. A. Boquee) Name and Signature of Teacher

ESTD JUNE 1964

Name and Signature of HoD

VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Miss. Aishwarya Anandarav Bogare

Programme: B. Sc. II Semester: IV

Subject: Botany (Major)

Course Code and Title: 2DSC03BOT42: "Industrial Botany"

th: Decemb	er	Module/Unit:	Sub-units Planned
Practicals	Total		
02	02	Practical- II	-
Month: January		Module/Unit:	Sub-units Planned
Practicals	Total		
01	01	Practical- II	-
nth: Februa	ry	Module/Unit:	Sub-units Planned
Practicals	Total		
01	01	Practical- II	-
	Practicals 02 nth: Januar Practicals 01 nth: Februa	02 02 onth: January Practicals Total 01 01 oth: February Practicals Total	Practicals Total 02 02 Practical- II nth: January Module/Unit: Practicals Total 01 01 Practical- II Other February Module/Unit: Practicals Total Practical- II Practical- II

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(Miss. A. A. Bogure)
Name and Signature of Teacher

Name and Signature of HoD

TVEKANAND COLLEGE, KOLHAPUR

EMPOWERED AUTONOMOUS

Academic Year: 2025-2026

Name of the teacher: Miss. Aishwarya Anandarav Bogare

Programme: B. Sc. II Semester: IV

Subject: Botany (Minor)

Course Code and Title: 2MIN03BOT42: "Commercial Botany"

th: Decemb	er	Module/Unit:	Sub-units planned	
Practicals	Total		Introduction, Potential Fungi.	
•	02	Unit 2: Fungi		
Month: January		Module/Unit:	Sub-units planned	
Practicals	Total	Unit 2: Fungi	Products, Processing and application of Fungi.	
-	04		Future prospectus- Trichoderma, Metarhizium, Beauveria.	
Month: February		Module/Unit:	Sub-units planned	
Practicals	Total		Penicillium, Aspergillus,	
a.	03	Unit 2: Fungi	Yeast, Ganoderma, Agaricus	
	Practicals onth: Januar Practicals - onth: Februa Practicals	- 02 nth: January Practicals Total - 04 nth: February Practicals Total	Practicals Total - 02 Inth: January Module/Unit: Practicals Total - 04 Inth: February Module/Unit: Practicals Total Unit 2: Fungi Unit 2: Fungi Unit 2: Fungi	

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(Miss. A. A. Begure) Name and Signature of Teacher

Name and Signature of HoD

VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Miss. Aishwarya Anandarav Bogare

Programme: B. Sc. I Semester: II

Subject: Botany

Course Code and Title: 2DSC03BOT29: DSC Botany LAB-2 Practical

Mon	th: Decemb	er	Module/Unit:	Sub-units planned
Lectures	tures Practicals Total		Practical - II	
00	03	03		
Month: January			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		9 55 3
00	02	02	Practical - II	
Month: February		ry	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	March Constitution (MIR. 1997)	
00	03	03	Practical - II	
Month: March		n	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	_ F	
00	02	02	Practical - II	

(Miss. A. A. Bogare) Name and Signature of Teacher



Name and Signature of HoD

DEPARTMENT OF BOTANI
VIVEKANAND COLLEGE, KOLHAPUR
TEMPOWERED AUTONOMOUSI

Academic Year: 2025-2026

Name of the teacher: Miss. Aishwarya Anandarav Bogare

Programme: B. Sc. I

Semester: II

Subject: Botany

Course Code and Title: 2OEC3LFS21- 'Herbal Cosmetics- II' Practical

Mor	th: Decemb	er	Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
00	03	02	Practical -II	-
Month: January			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
00	03	03	Practical -II	
Month: February			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
00	02	02	Practical -II	2-

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Miss A. A. Bogare)
Name and Signature of Teacher

Name and Signature of HoD

VIVEKANAND COLLEGE, KOLHAPI

CEMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Botany

Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Mrs. Priya Ashish Talekar

Programme: B. Sc II (Minor)

Semester: III

Subject: Botany

Course Title: Practical MIN-PR-I: 2MIN03BOT39

Month : July			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
	03	03	***	
Month:	August		Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
	04	04		
Month:	September		Module/Unit:	Sub-units planned
	04	04		
Month :	Octomber		Module/Unit:	Sub-units planned
	04	04		

Name and Signature of Teacher

(Mrs. Priya Ashish Talekar)

ESTD JUNE 1964

Name and Signature of HOD

Dr. B. T. Dangat

DEPARTMENT OF BOTAN:
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED ALTERNATION)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Botany Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Mrs. Priya Ashish Talekar

Programme: B. Sc II Major

Semester: III

Subject: Botany

Course Title: VSC PRACTICAL

(Bonsai and Terrarium)

Month : July			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
**	04	04		
Month:	August		Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
	04	04		
Month:	September		Module/Unit:	Sub-units planned
	04	04		
Month:	October		Module/Unit:	Sub-units planned
	03	03		

Name and Signature of Teacher

(Mrs. Priya Ashish Talekar)

ESTD JUNE 1964

Name and Signature of HOD

Dr. B. T. Dangat

DEPARTMENT OF BOTANY
VERANAND COLLEGE, KOLHAPUR
OMPOWERED AUTONOMOLIST

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Botany Annual Teaching Plan

Academic Year: 2024-2025

Name of the teacher: Mrs. Priya Ashish Talekar

Programme: B. Sc II Minor

Semester: III

Subject: Botany

Course Title: MIN- 1:2MIN03BOT31

Month : July			Module/Unit:	Sub-units planned		
Lectures	Practicals	Total	Unit 3 Genetic Engineering	Genetic Engineering: Introduction.		
02	(515	02				
Month: August			Module/Unit:	Sub-units planned		
Lectures	Practicals	Total	H. it 2 Countie Engineering	Methods of gene transfer -		
02		02	Unit 3 Genetic Engineering	Agrobacterium mediated		
Month : September			Module/Unit:	Sub-units planned		
02		02	Unit 3 Genetic Engineering	Direct gene transfer by Electroporation, Microinjection, Microprojectile bombardment		
Month:	Octomber		Module/Unit:	Sub-units planned		
02		02	Unit 3 Genetic Engineering	Transgenic plants, Applications of plant biotechnology		

Name and Signature of Teacher

(Mrs. Priya Ashish Talekar)

ESTD JUNE 1964

Name and Signature of HOD

Dr. B. T. Dangat

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Botany Annual Teaching Plan

Academic Year: 2024-2025

Name of the teacher: Mrs. Priya Ashish Talekar

Programme: B. Sc III Minor

Semester: III

Subject: Botany

Course Title: MIN-IX: MIN03BOT51

Plant Pharmaceutical Industry

Month : July			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit 4	Dermal tissues: Epidermis, Stomata, trichomes, endodermis
02	***	02	Plant Anatomy	(Periderm)
Month:	August		Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit 4	Fundamental or ground tissues: Parenchyma,
02	****	02	Plant Anatomy	collenchyma, sclerenchyma
Month:	September		Module/Unit:	Sub-units planned
02		02	Unit 4 Plant Anatomy	Vascular tissue: Phloem, xylem, cambium, secretory tissues
Month : October			Module/Unit:	Sub-units planned
02		02	Unit 4 Plant Anatomy	Ergastic cell contents: Starch, proteins, fixed oils, fats and calcium oxalate

Name and Signature of Teacher

(Mrs. Priya Ashish Talekar)

ESTD JUNE 1964

Name and Signature of HOD

Dr. B. T. Dangat

VIVEKANAND COLLEGE, KOLHAP ...
(EMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of Botany

Annual Teaching Plan

Academic Year: 2025-2626

Name of the teacher: Mrs. Priya Ashish Talekar

Programme: B. Sc III (Minor)

Semester: V

Subject: Botany

Course Title: PRACTICAL MIN03BOT59

Month:	July		Module/Unit:	11 11 42 34
Lectures	Practicals	Total	Suite Circ.	Sub-units planned
	03	03		
Month:	August		Module/Unit:	Cul
Lectures	Practicals	Total		Sub-units planned
1.5 T	02	02		
Month:	September		Module/Unit:	Sub-units planned
	02	02		
Month :	Octomber		Module/Unit:	Sub-units planned
	01	01		

Name and Signature of Teacher

(Mrs. Priya Ashish Talekar)

ESTD JUNE 1964

Name and Signature of HOD

Dr. B. T. Danget

DEPARTMENT OF BOTAN
VIVEKANAND COLLEGE, KOLHAPOT
(EMPOWERED ATTONIOMOUS)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Botany Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Mrs. Priya Ashish Talekar

Programme: B. Sc III (Major)

Semester: V

Subject: Botany

Course Title: PRACTICAL Study of Plant Ecology

Sub-units planned	Module/Unit:	Month : July		
		Total	Practicals	Lectures
		02	02	
Sub-units planned	Module/Unit:		August	Month :
		Total	Practicals	Lectures
		02	02	- = 44
Sub-units planned	Module/Unit:		September	Month:
		02	02	(Mark)
Sub-units planned	Module/Unit:		October	Month:
		02	02	••

Name and Signature of Teacher

(Mrs. Priya Ashish Talekar)



Name and Signature of HOD

Dr. B. T. Dangat

DEPARTMENT OF BOTANI
MIVEKANANI) COLLEGE, KOLHAZCI(EMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Botany Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Mrs. Priya Ashish Talekar

Programme: B. Sc III

Semester: V

Subject: Botany

Course Title: DSC- XI: DSC03BOT53: Plant Anatomy

Month : July			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	UNIT 4	Plant Adaptations
01		01	Plant Adaptations	Hydrophytes
Month:	August		Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
02		02	Plant Adaptations	Xeric adaptation
Month : September			Module/Unit:	Sub-units planned
02		02	UNIT 4 Plant Adaptations	Carnivourous Plants Epiphytic and Parasitic plant
Month :	Octomber		Module/Unit:	Sub-units planned
02	***	02	UNIT 4 Plant Adaptations	Mangrove Biology

Name and Signature of Teacher

(Mrs. Priya Ashish Talekar)

ESTD JUNE 1964

Name and Signature of HOD

Dr. B. T. Dangat

DEPARTMENT OF BOTANY
VEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONO)

Academic Year: 2025-2026

Name of the teacher: Mrs. Priya Ashish Talekar

Programme: B. Sc. III (Minor) Semester: VI

Subject: Botany

Course Code and Title: MIN-X: MIN03BOT61: General Agriculture

h: Novemb	oer	Module/Unit:	Sub-units planned	
Practical	Total	Unit 3:	Defination and losses caused by insect pest, Causes of insect pest.	
03	05	Study of Insect Pest		
h: Decemb	oer	Module/Unit:	Sub-units planned	
Practical	Total	Unit 3 :	Classification of insect pest based on (Occurrence of pest,	
02	04	Study of Insect Pest	intensity of pest, level of infection, food requirement).	
Month: January		Module/Unit:	Sub-units planned	
Practical	Total		Study of insect pest – Sugarcane white grub, Gram pod borer, Ball	
02	04	Unit 3 : Study of Insect Pest	worm of cotton, Mango hoppers	
th: Februa	iry	Module/Unit:	Sub-units planned	
Practical	Total	Unit 3:	Study of stored grain pest – Rice weevil, Pulse beetle	
02	03	Study of Insect Pest	Management of insect pest.	
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	Practical 03 th: December 1999 Practical 02 Th: Januar 1999 Practical Practical Practical Practical	03 05 th: December Practical Total 02 04 th: January Practical Total 02 04 th: February Practical Total	Practical Total O3 O5 th: December Module/Unit: Practical Total O2 O4 Th: January Module/Unit: Practical Total O2 O4 Th: February Module/Unit: Practical Total O3 O5 Module/Unit: Unit 3: Study of Insect Pest Unit 3: Study of Insect Pest	

Name and Signature of Teacher
MTS. Priya. A. Talekar.

ESTD JUNE 1964

Name and Signature of HoD

DEPARTMENT OF BOTANY
VIVEKANANT COLLEGE, KOLMANCO
(EMPRIMENTAL AND AUTHORIS)

Academic Year: 2025-2026

Name of the teacher: Mrs. Priya Ashish Talekar

Programme: B. Sc. II (Major)

Semester: IV

Subject: Botany

Course Code and Title: VSC-PR-II: 2 VSC03BOT49 (Herbal Technology)

Mo	onth : Decem	ber	Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
**	03	03		.exe
Month: January		ry	Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
	04	04		
Month: February		Module/Unit:	Sub-units planned	
Lectures	Practicals	Total		*
=	04	04		107-
Month : March		Module/Unit:	Sub-units planned	
ectures	Practicals	Total		
_	04	04	nar	

Name and Signature of Teacher

Mrs. Priva . A . Talekar



Name and Signature of HoD

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPU?
(EMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Botany **Annual Teaching Plan**

Academic Year: 2025-2026

Name of the teacher: Mrs. Priya Ashish Talekar

Programme: B. Sc. II (Minor) Semester: IV

Subject: Botany (Minor)

Course Code and Title: MIN-III: 2MIN03BOT41: Plant Tissue culture.

Mor	th: Decemb	er	Module/Unit:	Sub-units Planned
Lectures	Practicals	Total	Unit 1: History of Plant	History of plant tissue culture and research,
03	02	05	tissue Culture	Basic principles & terminology of plant tissue.
Month: January			Module/Unit:	Sub-units Planned
Lectures	Practicals	Total	Unit 1: History of Plant tissue Culture	Totipotency of cells, Cellular differentiation.
04	02	06		
Мо	nth: Februa	ry	Module/Unit:	Sub-units Planned
Lectures	Practicals	Total	Unit 2: Methodology of	Methodology-
03	02	05	Plant tissue culture	Sterilization (Physical and chemical methods)
Month: March			Module/Unit:	Sub-units Planned
Lectures	Practicals	Total		Plant cell culture
04	-	04	Unit 2: Methodology of Plant tissue culture	methods, Culture media, MS and B5, Phytohormones, Medium for micro-propagation.

Mars. Priya A. Talekar.

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Name and Signature of HoD

DEPARTMENT OF BOTANY VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Mrs. Priya Ashish Talekar

Programme: B. Sc. III (Major)

Semester: VI

Subject: Botany

Course Code and Title: VSC-PR-V: VSC03BOT69: Plant Nursery

Mor	nth: Novemb	oer	Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
112	02	02		
Month: December		er	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	(-	
227	02	02		
Month: January		Module/Unit:	Sub-units planned	
Lectures	Practicals	Total		
**	02	02		
Month: February		Module/Unit:	Sub-units planned	
Lectures	Practicals	Total		
	02	02		

Name and Signature of Teacher
Mos. Poiya A. Tollekar.

ESTD JUNE 1964 1964

Name and Signature of HoD

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Botany Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Mrs. Priya Ashish Talekar

Programme: B. Sc. III (Major)

Semester: VI

Subject: Botany

Course Code and Title: DSC-XIV: DSC03BOT63: Molecular Biology and Biotechnology

Month: November		er	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit 3 : Genetic Engineering	Introduction, Methods of gene transfer – Agrobacterium mediated, Direct gene transfer
04		04		by Electroporation.
Month: December		er	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit 3 : Genetic Engineering	Microinjection, Microproject bombardment, Transgenic plants, Applicationsof plant biotechnology.
04	(95)	04		
Month: January		y	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit 4 : Plant Tissue Culture	Principle, terminology and culture medium, Totipotency and cellular
04		04	Om 4. Hant Hissac Culture	differentiation,Organogenesis and embryogenesis,
Month: February		ry	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Unit 4 : Plant Tissue Culture	Applications of plant tissue culture – Protoplast culture, Somatic hybridization
03	-	04	Om 4. Fram Tissue Culture	and Microprogation.

Name and Signature of Teacher
1705. Priya. A. Talekar.

ESTD JUNE 1964

Name and Signature of HoD

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, HOLHAPUR
(EMPOWERED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Ms. Shivani Vijay Khorate

Programme: B. Sc. III

Semester: V

Subject: Botany

Course Code and Title: DSC03BOT51: "Mycology and Plant Pathology"

M	lonth: July		Module/Unit:	Sub-units planned
Lectures	Practical (Paper I: Plant Pathology)	Total		Intruction, Defination, History Branches and Importance
04	••	04	Unit 1: Introduction to Mycology	Classification of Fungi- Ainsworth (1973) Origin and Phylogeny of Fungi Fungal body and Cells
Me	onth: Augus	st	Module/Unit:	Fungal Physiology
			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 1: Introduction to Mycology	Nutrition and Growth Fungal Ecology Thallus Organization in
04		04		Thallus Organisation in Fungi Cell wall Composition
Mon	th: Septem	ber	Module/Unit:	Sub-units planned
04	<i>5</i> 78	04	Unit 2: Classification of Fungi	Study of Division Myxomycotina with reference to general coaracters upto classes with suitable examples Study of Division Eumycotina with reference to general characters upto classes with suitable examples
I.			*	
Moi	nth: Octobe	er	Module/Unit:	Sub-units planned
			100	OLLEGE

JUNE 1964

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Mont	th: Octob	per	Module/Unit:	Sub-units planned
03	HE.	03	Unit 2: Classification of Fungi	Study of Virus and Viroid Study of Mycoplasma Study of Lichen (With reference to introduction, types and iconomic importance)

Name and Signature of Teacher

Ms. Shivani. V. Khovate



Name and Signature of HoD

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Ms. Shivani Vijay Khorate

Programme: B. Sc. II Semester: III

Subject: Botany (Major)

Course Code and Title: 2DSC03BOT31: "Diversity of Cryptogams" and

DSC-PR-III: DAC03BOT39: DSC- Botany Lab- 3

Month: July		y Module/Unit:		Sub-units Planned
Lectures	Practicals	Total	Unit 1: Algae	Cryptogams: Introduction, General characters
02	01	03		Algae: Introduction, General characters
Month: August		Module/Unit:	Sub-units Planned	
Lectures	Practicals	Total	Unit 1: Algae	Thallus Organisationin Algae Methods of Reproduction
04	01	05		Classification of Algae (G.M.Smith) Economic Importance of Algae
Month: September		Module/Unit:	Sub-units Planned	
03	01	04	Unit 1: Algae	Study of Example with reference to occurrence, plant body life cycle of Spirogyra and Sargassum

Name and Signature of Teacher

Miss. Shivani. V. Khosate

ESTD JUNE 1964

Name and Signature Of HOD
VIVEKANAND COLLEGE, KOLHAPUN
(EN POWERICO SUTTINOMOLIS)

Vivekanand College, Kolhapur (Autonomous) Department of Botany Annual Teaching Plan

Academic Year: 2024-2025

Name of the teacher: Ms. Shivani Vijay Khorate

Programme: B. Sc. I

Semester: I

Subject: Botany

Course Code and Title: 2DSC03BOT29: DSC BOTANY LAB -1

Mo	onth: Augus	t	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	•	
	04	04		
Month: September		Module/Unit:	Sub-units planned	
Lectures	Practicals	Total		
-	03	03	. *	
Month: October		Module/Unit:	Sub-units planned	
	01	01		
			(a)	*

Name and Signature of Teacher Ms. Shivani. V. khovate

JUNE 1964

(EMPOWERED AUTOMOMOUS)

Academic Year: 2025-2026

Name of the teacher: Ms. Shivani Vijay Khorate

Programme: B. Sc. I

Semester: 1

Subject: Botany

Course Code and Title: 20EC03LFS11: "Herbal Cosmetics-I"

Month: August			Module/Unit:	Sub-units planned
ires I	Practicals	Total		11.44
	02	02		
Month: September		ber	Module/Unit:	Sub-units planned
ures 1	Practicals	Total	•	2番
	04	04		
Month: October		er	Module/Unit:	Sub-units planned
ures 1	Practicals	Total		-
50	03	03		

Name and Signature of Teacher
Ms. Shivani. V. Khovate

ESTD JUNE 1964

DEPARTMENT OF BOTANT VIVEKANAND COLLEGE, KOLHAPI: NEMPOWERSINGHOMMEHOD

Academic Year: 2025-2026

Name of the teacher: Ms. Shivani Vijay Khorate

Programme: B. Sc. II

Semester: III

Subject: Botany

Course Code and Title: 20EC03LFS31: "Advanced Entrepreneurship in Botany-I"

Sub-units planned	Module/Unit:	Month: August		
(AP)	me.	Total	Practicals	Lectures
		02	02	
Sub-units planned	Module/Unit:	per	Month: September	
		Total	Practicals	Lectures
		04	04	
Sub-units planned	Module/Unit:	er	Month: October	
		Total	Practicals	Lectures
		02	02	

Name and Signature of Teacher

Ms. Shivani. V. Khozate

ESTD JUNE 1964

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
NEMROWATES AUTONOMOUS)
NEMROWATES AUTONOMOUS)

Vivekanand College, Kolhapur

(An Empowered Autonomous Institute)

Department of Botany

Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Miss Shivani Vijay Khorate

Programme: B. Sc. I

Semester: II

Subject: Botany

Course Title: DSC BOT- PR-II: 2DSC03BOT29: DSC BOTANY LAB- 2

Month: December			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Practical - II	
	05	05		
Month: January		у	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Practical - II	
	04	04		
Mo	nth: Februa	ry	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Practical - II	-
	04	04		
Month: March		Module/Unit:	Sub-units planned	
Lectures	Practicals	Total	Practical - II	
22	02	02		

Name and Signature of Teacher
(Miss. S. V. Khovate)

ESTD JUNE 1964 1964

Name and Signature of HOD

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Miss Shivani Vijay Khorate

Programme: B. Sc. II

Semester: IV

Subject: Botany (OE)

Course Title: OEC-PR-IV: "2OEC03LFS41": Life Science-IV

Month: December			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
	03	03	Practical II	
Мо	nth: Januar	у		
Lectures	Practicals	Total		
	05	05	Practical II	-
Mo	nth: Februa	ry		18
	04	04	Practical II	
Month: March				
	03	03		

Name and Signature of Teacher Miss. S. V. Khovote ESTD JUNE 1964 1964

Name and Signature of HOD

VIVEKANAND COLLEGE, KOLHAPO-(EMPOWERED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Miss Shivani Vijay Khorate

Programme: B. Sc. I Semester: II

Subject: Botany

Course Title: "Open Elective" Practical - II ("20EC3LFS21: Herbal Cosmetics-II")

Month: December		Module/Unit:	Sub-units planned	
Lectures	ectures Practicals Total		Practical - II	Preparation of mehandi Study of extraction and application of natural
-	04	04		dyes Study of preparation of organic soaps.
Month: January		ту	Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Practical - II	Study of preparation of dhoop and agarbati. Study of preparation of
	05	05		beverages. Best from Waste Study of preparation of wheat grass juice
Month: February		Module/Unit:	Sub-units planned	
(lee)	03	03	Practical - II	DIY Study of preparation of Ayurvedic juices

Name and Signature of Teacher Miss. S. V. Khosqte ESTD JUNE 1964 1964

Name and Signature of HOD

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHAPUR
IEM OWERED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Miss Shivani Vijay Khorate

Programme: B. Sc. II

Semester: IV

Subject: Botany

Course Title: "2DSC-PR-IV: 2DSC03BOT42"

Month: December			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
	02	02	Practical II	
Мо	nth: Januai	у		
Lectures	Practicals	Total		*
V and	04	04	Practical II	
Mor	ith: Februa	гу		
	02	02	Practical II	

Name and Signature of Teacher Miss. S. V. Khozate



Name and Signature of HOD

DEPARTMENT OF BOTAN:
VIVEKANAND COLLEGE, HOLHAPHR
(EMPONEPED AUTONOMOUS)

Academic Year: 2025-2026

Name of the teacher: Miss Shivani Vijay Khorate

Programme: B. Sc. II

Semester: IV

Subject: Botany

Course Title: 2MIN03BOT41- Plant Tissue Culture

Month: December			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		1a. Organogenesis 1.b Callus induction
05	00	05	Unit. 3- Culture of organs	1.c Embryogenesis
	+ +			1.d Protoplast culture 1.e Somatic hybridization
Mo	onth: Janua	ry	Module/Unit:	Sub-units planned
04	00	04		1.f Micropropogation media requirements
			Unit. 3- Culture of organs	1.e Morphogenetic potential and its applications.
Month: February			Module/Unit:	Sub-units planned
04	00	04	Unit- Application of tissue culture	2.a Micropropogation 2.b Production of disease free plants, Tissue culture and crop improvement- Agrobacterium mediated gene transfer technology

JUNE 1964

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				2.c Production of Artificial seeds.
Month: March		ch	Module/Unit:	Sub-units planned
03	00	03	Unit-Application of tissue culture	2.b Production of disease free plants, Tissue culture and crop improvement- Agrobacterium mediated gene transfer technology 2.c Production of Artificial seeds,

Name and Signature of Teacher Miss. S. V. Khosale

ESTD JUNE 1964 1964

Name and Signature of HOD

DEPARTMENT OF BOTANY
VIVEKANAND COLLEGE, KOLHA
(EMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Botany
Annual Teaching Plan

Academic Year: 2025-2026

Name of the teacher: Miss Shivani Vijay Khorate

Programme: B. Sc. III

Semester: VI

Subject: Botany

Course Title: DSC03BOT63: "Molecular Biology and Biotechnology and

Month: November			Module/Unit:	Sub-units planned
Lectures 03	Practical 00	Total 03	Section 1: Unit1- Genetic material	1a. Nucleic acids (DNA, RNA) 1.b Griffith's and Avery's transformation experiments 1.c Harshey- Chase bacteriophage experiment
Mon	th: Decemb	per	Module/Unit:	Sub-units planned
Lectures	Practical	Total	Section I:	1.d DNA structure and
04	00	04	Unit1- Genetic material	types of DNA 1e. DNA replication 1.f RNA its structure and types 1.g Transcription and translation process
Month: January			Module/Unit:	Sub-units planned
05	00	05	Section I: Unit II: Recombinant DNA Technology	1a.Introduction 1b.Principle of Recombinant DNA Technology 1c. Enzymes involved in recombinant DNA technology. 1d. Introduction of cloning vectors

				1e.Plasmid, Bacteriophage
Mon	th: Februs	ary	Module/Unit:	Sub-units planned
04	00	04	Section I: Unit II: Recombinant DNA Technology	1f. Cosmid 1g. Blotting techniques- Northern, Southern and DNA fingerprinting 1.h Gene amplification- PCR technique

Name and Signature of Teacher Miss. S. V. Khoxate.

ESTD JUNE 1964 1964

Name and Signature of HOD