Shri Swami Vivekanand Shikshan Sanstha's Vivekanand College, Kolhapur (Empowered Autonomous) Department of Zoology

Academic year: 2023-24

Syllabus Completion Report (Term II)

- 1. Dr. G. K. Sontakke
- 2. Dr. T. C. Gaupale
- 3. Dr. S. P. Khairmode
- 4. Dr. S. S. Desai
- 5. Mr. G. H. Fadake
- 6. Dr. T. C. Patil
- 7. Ms. P. S. Shetfalkar
- 8. Ms. N. A. Jadhav
- 9. Ms. A. P. Sutar
- 10. Ms. P. R. Gaikwad



Dr. G. K. Sontakke

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

SYLLABUS COMPLETION REPORT

Teacher Name: Dr. G. K. Sontakke

Class	Subject	Total Units	Completed Units	Remaining Units
B.Sc. II Semester II	Cell Biology, Genetics, Evolution and Ethology (Section II)	1	Unit IV- Ethology Classification of Animal behavior, Inborn and instinct behavior with suitable example, Acquired animal behavior- imprinting, conditioning, habitual, reasoning Types of mimicry- protective and aggressive, Types of coloration- protective aggressive and warning, Social behavior in animals- honey bee and ant.	NIL
B.Sc. III Semester VI	Aquatic Biology	1	Unit I: Freshwater Biology 1. Introduction of the aquatic biomes: Freshwater ecosystem (wetlands, streams and rivers) 2. Origin and classification Ponds & lakes, physicochemical characteristics and nutrient cycling 3. Streams: Types of streams, physicochemical environment, conservation of streams, adaptation of hill stream fishes 4. Estuaries: Characteristics & types (based on salinity) 5. Eutrophication	NIL

Dr. G. K. Sontakke

Dr. G. K. Sontakke

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

PRACTICAL COMPLETION REPORT

Teacher Name: - Dr. G. K. Sontakke

Class	Practical No.	Batch	Practical based on paper	Remaining Units
B. Sc. II	Practical I	S12	Mammalian Physiology and Biochemistry	NIL
B.Sc. III	Practical VIII	T4	Ecology and Toxicology & Aquatic Biology	NIL

Dr. G. K. Sontakke

Dr. G. K. Sontakke

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

SYLLABUS COMPLETION REPORT

Teacher Name: Dr. T.C. Gaupale

Term II

Practicals

Class	Practical No.	Batch	Practical Based on paper	Remaining Practicals
B. Sc. I	Practical I & II	F22, F17 & F18	Practicals based on Animal Diversity II Practicals based on Genetics Vermicomposting	NIL
B. Sc. II	Practical II	S13	Cell Biology, Genetics, Evolution and Ethology	NIL
B. Sc. III	Practical I	T2	Developmental Biology-I Developmental Biology-II	NIL

Theory

Class	Theory	Unit	Units/Paper title	Remaining Topics
B. Sc. I Theory	Unit I	GENETICS Introduction to Genetics Brief explanation of following terms Mendelian Genetics Extension of Mendelian Genetics	NIL	
	Unit II	Mutations, Basics of Human genetics Karyotype, Sex Determination Genetic Disorders	NIL	
B. Sc. III	Theory	Unit I	Immunology- I Introduction to basic concepts in immunology, components of immune system, Types of immunity, Haematopoiesis Cells in immune system, Organs of immune system-	NIL

Dr. Tekehand C. Gaupale

Dr. G. K. Sontakke

HEAD

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

PRACTICALS COMPLETION REPORT

Teacher Name: Dr. T.C. Gaupale

Class	Practical No.	Batch	Practical Based on paper	Remaining Practicals
B. Sc. I	Practical I & II	F22 F17 & F18	Animal Diversity II and Genetics Vermicomposting	NIL
B. Sc. II	Practical II	S13	Cell Biology, Genetics, Evolution and Ethology	NIL
B. Sc. III	Practical I	T2	Developmental Biology-I and Developmental Biology-II	NIL

Dr. G. K. Sontakke

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

SYLLABUS COMPLETION REPORT

Teacher Name: Dr. Sneha S. Desai

Class	Subject	Total Units	Completed Units	Remaining Units
B.Sc. III Semester VI	Immunology- II	1	Working of the Immune system – 1. Structure and functions of MHC 2. Exogenous and endogenous pathways of antigen presentation and processing 3. Basic properties of signalling moleculescytokines and their types (chemokines, interleukins, interferons, lymphokines, tumour necrosis factor) 4. Complement system: Components and pathways (classical & alternative)	NIL
B.Sc. II Semester: IV			Linkage, Crossing Over- Types of linkage and mechanism of crossing over, Cytological evidence of crossing over, Significance of crossing over Mutations- Chromosomal mutations: Deletion, Duplication, Inversion, Translocation, Aneuploidy and Polyploidy, Gene mutations: Induced versus Spontaneous mutations, Frameshift mutation, Point mutation Sex Determination- Dosage compensation, Chromosomal theory of sex determination, Sex linked inheritance, Geneic balance theory, Haploidy-diploidy mechanism, Environmental sex determination	NIL

Dr. Sneha S. Desai

Dr. G. K. Sontakke
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DEPARTMENT OF ZOOLOGY
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(EMPOWERED AUTONOMOUS)

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

PRACTICALS COMPLETION REPORT

Teacher Name: Dr. Sneha S. Desai

Class	Practical No.	Batch	Practical Based on paper	Remaining Practicals
B. Sc. I	Practical I &	F17&	Animal Diversity II and Genetics Vermicomposting	NIL
B. Sc. II	Practical I	S9	Cell Biology, Genetics, Evolution and Ethology	NIL
B. Sc. III	Practical I	T1	Molecular Biology and Biotechniques and Animal Biotechnology	NIL

Dr. Sneha S. Desai

Dr. G. K. Sontakke
HEAD
DEPARTMENT OF ZOOLOGY

VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

SYLLABUS COMPLETION REPORT

Teacher Name: Dr. Shilpa P. Khairmode

Class	Subject	Total Units	Completed Units	Remaining Units
B.Sc. I Semester II	Animal Diversity II	UNIT- II	General Characters and classification up to subclasses; Important characters of following Eutherian orders with examples, Primates, Chiroptera and Rodentia	NIL

Dr. Shilpa P. Khairmode

Dr. G. K. Sontakke

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

SYLLABUS COMPLETION REPORT

Teacher Name: Dr. Shilpa P. Khairmode

Class	Subject	Total Units	Completed Units	Remaining Units
B.Sc. III Semester VI Paper XV	Ecology and Toxicology	UNIT- II	Toxicology 3.Heavy metal toxicity- Mercury, Lead and Cadmium	NIL
			4. Classification of toxic agents- Natural, animal, plant, food and chemical toxins	

Dr. Shilpa P. Khairmode

Dr. G. K. Sontakke HEAD PARTMENT OF ZOOLOGY TUSKANAND COLLEGE, KOLHAPUR

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"Dissemination of Education for Knowledge, Science and Culture"
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Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

SYLLABUS COMPLETION REPORT

Teacher Name: Mr. Ganesh H. Fadake

Class	Subject	Total Units	Completed Units	Remaining Units
B.Sc. II Semester IV	Cell Biology, Genetics, Evolution and Ethology	1/2	Mendelian Genetics and its Extension Terminology in genetics, Principles of inheritance, Chromosomal theory of inheritance, Incomplete dominance and codominance, Multiple alleles with respect to ABO	NIL

Mr. Ganesh H. Fadake

Dr. G. K. Sontakke

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

SYLLABUS COMPLETION REPORT

Teacher Name: Ms. Pallavi S. Shetfalkar

Class	Subject	Total Units	Completed Units	Remaining Units
B.Sc. I Semester II	Animal Diversity II	1	Unit I Protochordata: General characters and Classification of Protochordata Agnatha: General characters of Agnatha and Classification of cyclostomes up to classes Pisces: General characters of Pisces, General characters of Chondrichthyes and Osteichthyes with examples; aquatic adaptations of fishes Amphibia: General features and Classification up to orders; Parental care in Amphibia	NIL
B.Sc. III Semester VI	Aquatic Biology	2	Marine Biology 1. Introduction of marine ecosystem: Structure & zonation of sea & ocean 2. Physico—chemical properties of seawater- salinity, density, viscosity, surface tension, concept of chlorinity and salinity of sea water. 3. Coral & coral reefs: Types & economic importance 4. Continental shelf, adaptations of deep sea organisms.	NIL

Ms. Pallavi S. Shetfalkar

Dr. G. K. Sontakke
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DEPARTMENT OF ZOOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
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Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

SYLLABUS COMPLETION REPORT

Semester: III 4 IV

Subject: Mammalian Physiology and Biochemistry

Teacher Name: - Ms. P. S. Shetfalkar

Course title: B.Sc. II

Class	Practical No.	Batch	Practical based on paper	Remaining Practicals
B. Sc. II	Practical I	S12	Mammalian Physiology and Biochemistry	NIL

Ms. P. S. Shetfalkar

Dr. G. K. Sontakke

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

SYLLABUS COMPLETION REPORT

Teacher Name: Dr. T. C. Patil

Class	Subject	Total Units	Completed Units	Remaining Units
B.Sc. III Semester VI	Immunology- II	1	Unit II: Immune system in health and disease Gell and Coombs' classification and brief description of various types of hypersensitivities, Introduction to concepts of autoimmunity and immunodeficiency and Autoimmune disorders Unit 7: Vaccines General introduction to vaccines, types of vaccines, production of vaccines	NIL .
B.Sc. II Semester: IV	Cell Biology, Genetics, Evolution and Ethology	1	UNIT-IV Direct Evidences of Evolution: Types of fossils, Process of fossilization, Dating of fossils, Species Concept: Biological species concept (Advantages and limitations); Modes of speciation (Allopatric, Sympatric, Peripatric and Parapatric) Extinction: Mass extinction (Causes, Names of five major extinctions, K-T extinction in detail), Role of Extinction in evolution.	NIL

Dr. Tejashri C. Patil

Dr. G. K. Sontakke

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

PRACTICALS COMPLETION REPORT

Teacher Name: Dr. T. C. Patil

Class	Practical No.	Batch	Practical Based on paper	Remaining Practicals
B. Sc. I	Practical I & II	F20	Public Health and Hygiene, Haematology Diversity in living organism and structural Organisation in Animals	NIL
B. Sc. II	Practical II	S9	Cell Biology, Genetics, Evolution and Ethology	NIL
B. Sc. III	Practical IV	T4	Immunology	NIL

Dr. Tejashri C. Patil

Dr. G. K. Sontakke

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

Syllabus Completion Report-Term II

Teacher Name: Miss. Namrata A. Jadhav

Class	Paper	Total Units	Completed Units	Remaining Units
B.Sc. III	Ecology and	1	Ecology 1.Introduction and scope of ecology	
Semester -VI	Toxicology		 The structure, function, types ecosystem, abiotic and biotic components, Concept of habitat & niche- niche width and overlap, fundamental & realised niche. Food chain, food web and ecological pyramids, Species interactions-types of interaction (competition, predation, commensalism, parasitism, mutualism, amensalism) Community ecology: Nature of communities, characteristics (species richness, dominance, diversity, abundance), ecotone and edge effect Ecological succession -Types of succession (primary, secondary), stages of succession, mechanisms of succession, types of seres (hydrosere, lithosere) Ecological adaptation in aquatic, desert & terrestrial animals 	NIL
B.Sc. II Semester -IV	Cell Biology, Genetics, Evolution and Ethology (Section- II)	1	UNIT-III Evolution History of Life Major events in history of life, Geological time scale Introduction to Evolutionary Theories Lamarckism, Darwinism, Neo-Darwinism Evolutionary Change Organic variations, Isolating mechanisms, Natural selection (Example: Industrial melanism); Types of natural selection (Directional, Stabilizing, Disruptive), Artificial selection	NIL

Miss. Namrata A. Jadhav

Dr. G. K. Sontakke
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Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

SYLLABUS COMPLETION REPORT (Term II)

Teacher Name: Ms. Akshata P. Sutar

Class	Subject	Total Units	Completed Units	Remaining Units
B.Sc. III Sem VI	Ecology and Toxicology	1	Definition, history, scope & divisions of toxicology. Brief idea of- Dose-effect and dose-response relationship- acute toxicity, sub-acute toxicity, chronic toxicity, organ specific toxicity (neurotoxicity, hepatotoxicity, nephrotoxicity)	Nil
B. Sc. II Sem IV	Cell Biology, Genetics, Evolution and Ethology	1	Structure of Biomolecules - DNA, RNA and its types Ultra-structure of cell organelle Structure of prokaryotic and eukaryotic cell, Ultra structure and function of – Plasma membrane, Nucleus, Mitochondria, Golgi apparatus, Endoplasmic reticulum, Ribosome, lysosomes.	Nil

Ms. Akshata P. Sutar

Dr. G. K. Sontakke

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

PRACTICALS COMPLETION REPORT

Teacher Name: Ms. Akshata P. Sutar

Class	Practical No.	Batch	Practical Based on paper	Remaining Practicals
B. Sc. I	Practical I & II	F23	Animal Diversity II and Genetics	NIL
B. Sc. II	Practical II	S10 & S12	Cell Biology, Genetics, Evolution and Ethology	NIL

Ms. Akshata P. Sutar

Dr. G. K. Sontakke

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

SYLLABUS COMPLETION REPORT

Name of the teacher: Ms. Pratiksha R. Gaikwad

Class	Subject	Total Units	Completed Units	Remaining Units
orgai	Structural organisation in animal	UNIT-I	Prokaryotic and eukaryotic cells- Organization in a Multicellular Animal: a. Cellular level of organization b. Tissue Level of organization c. Organ Level of organization Types of animal tissues a. Epithelial tissue b. Connective Tissue c. Muscle tissue d. Neural tissue Sense organ- Photoreceptor, Tangoreceptors, Statoacoustic	NIL
		UNIT-II	Study of various systems in human a. Digestive system b. Nervous system c. Circulatory system d. Male reproductive system e. Female reproductive system f. Respiratory system g. Skeletal system h. Endocrine gland	NIL

Ms. Pratiksha R. Gaikwad

Dr. G. K. Sontakke

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Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Zoology Academic year: 2023-2024

PRACTICALS COMPLETION REPORT

Teacher Name: Ms. Pratiksha R. Gaikwad

Class	Practical No.	Batch	Practical Based on paper	Remaining Practicals
B. Sc. I	Practical I & II	F21	Animal Diversity II Genetics	NIL
B. Sc. II	Practical I	S10& S14	Mammalian Physiology and Biochemistry	NIL

Ms. Pratiksha R. Gaikwad

Dr. G. K. Sontakke