

“Dissemination of Education for Knowledge, Science and Culture”
-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (Empowered Autonomous)
Department of Zoology
Academic year: 2023-24

Annual Teaching 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

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Department of Zoology
Academic year: 2023-2024

Annual teaching plan

Term II

Semester: VI

Teacher Name: -Dr. G. K. Sontakke

Subject: Aquatic Biology

Course title: B.Sc. III

Month: December			Module unit	Sub unit planned
Lectures	Practical	Total	Unit-I	Freshwater Biology 1.Introduction of the aquatic biomes: Freshwater ecosystem (wetlands, streams and rivers)
4	4	12		
Month: January			Module unit	Sub unit planned
Lectures	Practical	Total	Unit-I	2.Origin and classification Ponds & lakes, physicochemical characteristics: light, temperature stratification, dissolved solids, turbidity; dissolved gases (oxygen, carbon dioxide), nutrient cycling (nitrogen, phosphorus, sulphur, carbon)
4	4	12		
Month: February			Module unit	Sub unit planned
Lectures	Practical	Total	Unit -I	3.Streams: Types of streams, physicochemical environment, conservation of streams, adaptation of hill stream fishes
4	4	12		
Month: March			Module unit	Sub unit planned
Lectures	Practical	Total	Unit-I	4.Estuaries: Characteristics & types (based on salinity) 5.Eutrophication
4	4	12		

G.K.

Dr. G. K. Sontakke

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Academic year: 2023-2024

Annual teaching plan


Term II

Semester: IV **Subject:** Cell Biology, Genetics, Evolution and Ethology (Section II)

Teacher Name: -Dr. G. K. Sontakke

Course title: B.Sc. II

Month: January			Module unit	Sub unit planned
Lectures	Practical	Total	Unit- IV	Ethology Classification of Animal behavior,
4	4	08		
Month: February			Module unit	Sub unit planned
Lectures	Practical	Total	Unit -IV	Inborn and instinct behavior with suitable example,
4	4	08		
Month: March			Module unit	Sub unit planned
Lectures	Practical	Total	Unit-IV	Acquired animal behavior- imprinting, conditioning, habitual, reasoning
4	4	08		
Month- April- 2024			Module Unit	Sub unit planned
Lectures	Practical	Total	Unit-IV	Types of mimicry- protective and aggressive, Types of coloration- protective aggressive and warning, Social behavior in animals-honey bee and ant.
2	2	04		


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Term II

Semester: VI

Subject: Immunology-II

Name of the teacher: Dr. T. C. Gaupale

Course: B. Sc. III

Month-December-2023			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	UNIT-I	Overview of Immune system- Introduction to basic concepts in immunology, components of immune system. Types of immunity
4	4	08		
Month – January- 2024				
Lectures	Practicals	Total	UNIT-I	Haematopoiesis, Cells in immune system- Lymphoid cells (B lymphocytes, T-lymphocytes), natural killer cells (NK cells), phagocytes, granulocytic cells- neutrophils, eosinophils, basophils, mast cells. Organs of immune system- Primary lymphoid organ- bone marrow, thymus, bursa of fabricius.
8	4	12		
Month- February-2024				
Lectures	Practicals	Total	UNIT-I	Secondary lymphoid organ- lymph node, spleen, mucosal associated lymphoid tissue (MALT), tonsils, gut associated lymphoid tissue (GALT) Antigens: Basic properties of antigens
8	4	12		
Month- March-2024				
2	2	04	UNIT-II	Antibodies: Structure, classes and function of antibodies.


Dr. T. C. Gaupale


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Term II

Semester: II

Subject: Genetics

Name of the teacher: Dr. T. C. Gaupale

Course: B. Sc. I

Month-December-2023			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	UNIT-I	Introduction to Genetics: Definition, scope and importance of genetics, Classical and modern concept of gene (Cistron, Muton, Recon)
4	4	08		
Month – January- 2024				
Lectures	Practicals	Total	UNIT-I	Brief explanation of terms: Alleles, Wild type, Mutant allele, Locus, Dominant and recessive trait, Homozygous and heterozygous, Genotype and phenotype, Genome, Mendelian Genetics: Mendel's law of inheritance
8	4	12		
Month- February-2024				
Lectures	Practicals	Total	UNIT-I	Monohybrid cross, Dihybrid Cross, Test cross, Back cross. Extension of Mendelian Genetics: Chromosomal theory of inheritance, Incomplete dominance and co-dominance, Multiple alleles with respect to ABO, RH blood group, Polygenic inheritance with reference to skin colour and eye colour in man, Lethal Alleles, Concept of Pleiotropy
8	4	12		
Month- March-2024				
2	2	04	UNIT-II	Mutations


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Term II

Semester: VI

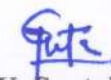
Subject: Immunology-II

Name of the teacher: Dr. Sneha S. Desai

Course: B. Sc. III

Month-December-2023			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	UNIT-I	Working of the Immune system Structure and functions of MHC Exogenous pathways of antigen presentation and processing
4	4	08		
Month – January- 2024				
Lectures	Practicals	Total	UNIT-I	Endogenous pathways of antigen presentation and processing, Basic properties of signalling molecules-cytokines and their types (chemokines, interleukins)
8	4	12		
Month- February-2024				
Lectures	Practicals	Total	UNIT-I	Interferons , lymphokines, tumour necrosis factor, Complement system: Components and Classical pathways of complements system
8	4	12		
Month- March-2024				
2	2	04	UNIT-I	Alternative pathways of complements system


Dr. Sneha s. Desai


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Term II

Semester: II

Subject: Animal Diversity II

Name of the teacher: Dr. Shilpa P. Khairmode

Course: B. Sc. I

Month: March 2024			Module unit	Sub unit planned
Lectures	Practicals	Total	UNIT-II	Mammals: General Characters and classification up to subclasses
02	00	02		
Month: April-2024			Module unit	Sub unit planned
Lectures	Practicals	Total	UNIT- II	Mammals: Eutherian orders with examples, Primates, Chiroptera and Rodentia
02	00	02		


Dr. Shilpa P. Khairmode


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Term II


Semester: VI, Paper XV


Subject: Ecology and Toxicology

Name of the teacher: Dr. Shilpa P. Khairmode

Course: B. Sc. III

Month: March 2024			Module unit	Sub unit planned
Lectures	Practicals	Total	UNIT-II	Toxicology: 3. Heavy metal toxicity- Mercury, Lead and Cadmium
02	00	02		
Month: April-2024			Module unit	Sub unit planned
Lectures	Practicals	Total	UNIT- II	Toxicology: 4. Classification of toxic agents- Natural, animal, plant, food and chemical toxins
02	00	02		


Dr. Shilpa P. Khairmode


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Term II

Semester: IV **Subject:** Cell Biology, Genetics, Evolution and Ethology (Section I)

Name of the teacher: Mr. Ganesh H. Fadake

Course: B. Sc. II

Month – March - 2024			Module unit	Sub unit planned
Lectures	Practicals	Total	UNIT-I	Terminology in genetics, Principles of inheritance, Chromosomal theory of inheritance, Incomplete dominance and codominance,
03	00	03		
Month- April-2024			Module unit	Sub unit planned
Lectures	Practicals	Total	UNIT- I	Multiple alleles with respect to ABO
01	00	01		

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Term II

Semester: VI

Subject: Immunology-II

Name of the teacher: Dr. Tejashri C. Patil

Course: B. Sc. III

Month-December-2023			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	UNIT-II	Gell and Coombs classification of hypersensitivity
4	4	08		
Month – January- 2024				
Lectures	Practicals	Total	UNIT-II	Autoimmune disease- Organ-specific autoimmune diseases (insulin-dependent diabetes mellitus, hashimoto's thyroiditis) And systemic autoimmune diseases- (multiple sclerosis, rheumatoid arthritis)
8	4	12		
Month- February-2024				
Lectures	Practicals	Total	UNIT-II	Concept of immunodeficiency Vaccines- Properties of vaccines, active and passive immunization
8	4	12		
Month- March-2024				
2	2	04	UNIT-II	Types of vaccine:- attenuated, inactivated, DNA vaccines, toxoids.


Dr. Tejashri C. Patil


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Term II

Semester: IV **Subject:** Cell Biology, Genetics, Evolution and Ethology (Section II)

Name of the teacher: Dr. Tejashri C. Patil

Course: B. Sc. II

Month – January- 2024				
Lectures	Practicals	Total	UNIT-IV	Direct Evidences of Evolution: Types of fossils, Process of fossilization, Dating of fossils
4	4	08		
Month- February-2024				
Lectures	Practicals	Total	UNIT- IV	Species Concept: Biological species concept (Advantages and limitations); Modes of speciation
4	4	08		
Month- March-2024				
4	4	08	UNIT- IV	(Allopatric, Sympatric, Peripatric and Parapatric) Extinction: Mass extinction (Causes, Names of five major extinctions, K-T extinction in detail), Role of Extinction in evolution.
Month- April-2024				
2	2	04	UNIT- IV	K-T extinction in detail), Role of Extinction in evolution


Dr. Tejashri C. Patil


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Term II

Semester: II

Teacher Name: - Ms. P. S. Shetfalkar

Subject: Animal Diversity II

Course title: B.Sc. I

Month: December			Module unit	Sub unit planned
Lectures	Practical	Total	Unit-I	Protochordata: General characters and Classification of Protochordata
8	8	12		
Month: January			Module unit	Sub unit planned
Lectures	Practical	Total	Unit-I	Agnatha: General characters of Agnatha and Classification of cyclostomes up to classes
8	8	12		
Month: February			Module unit	Sub unit planned
Lectures	Practical	Total	Unit -I	Pisces: General characters of Pisces, General characters of Chondrichthyes and Osteichthyes with examples; aquatic adaptations of fishes
8	8	12		
Month: March			Module unit	Sub unit planned
Lectures	Practical	Total	Unit-I	Amphibia: General features and Classification up to orders; Parental care in Amphibia
8	8	12		


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Term II

Semester: VI

Teacher Name: -Ms. P. S. Shetfalkar

Subject: Aquatic Biology

Course title: B.Sc. III

Month: December			Module unit	Sub unit planned
Lectures	Practical	Total	Unit-II	Marine Biology 1. Introduction of marine ecosystem: Structure & zonation of sea & ocean
4	00	4		
Month: January			Module unit	Sub unit planned
Lectures	Practical	Total	Unit-II	2. Physico-chemical properties of seawater- salinity, density, viscosity, surface tension, concept of chlorinity and salinity of sea water.
4	00	4		
Month: February			Module unit	Sub unit planned
Lectures	Practical	Total	Unit-II	3. Coral & coral reefs: Types & economic importance
4	00	4		
Month: March			Module unit	Sub unit planned
Lectures	Practical	Total	Unit-II	4. Continental shelf, adaptations of deep sea organisms.
4	00	4		


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Term II

Semester: VI

Subject: Ecology and Toxicology

Name of the teacher: Miss. Namrata A. Jadhav

Course: B. Sc. III

Month: December, 2023			Module/unit	Sub-units Planned
Lectures	Practical	Total		
04	-	04	Unit I	Introduction and scope of ecology The structure, function, types ecosystem, abiotic and biotic components,
Month: January, 2024			Module/unit	Sub-units Planned
Lectures	Practical	Total		
08	-	08	Unit I	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)
Month: February, 2024			Module/unit	Sub-units Planned
Lectures	Practical	Total		
08	-	08	Unit I	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)
Month: March, 2024			Module/unit	Sub-units Planned
Lectures	Practical	Total		
02	-	02	Unit I	Ecological adaptation in aquatic, desert & terrestrial animals

Namrata

Miss. Namrata A. Jadhav

Gita

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Annual Teaching Plan

Term II

Semester: IV

Subject: Cell Biology, Genetics, Evolution and Ethology (Section-II)

Name of the teacher: Miss. Namrata A. Jadhav

Course: B. Sc. II

Month: January, 2024			Module/unit	Sub-units Planned
Lectures	Practical	Total		
04	04	08	Unit I	History of Life- Major events in history of life, Geological time scale
Month: February, 2024			Module/unit	Sub-units Planned
Lectures	Practical	Total		
04	04	08	Unit I	Introduction to Evolutionary Theories- Lamarckism, Darwinism, Neo-Darwinism,
Month: March, 2024			Module/unit	Sub-units Planned
Lectures	Practical	Total		
04	04	08	Unit I	Evolutionary Change- Organic variations, Isolating mechanisms, Natural selection (Example: Industrial melanism)
Month: April, 2024			Module/unit	Sub-units Planned
Lectures	Practical	Total		
02	02	04	Unit I	Types of natural selection (Directional, Stabilizing, Disruptive), Artificial selection

Miss. Namrata A. Jadhav

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Term II

Semester: IV

Subject: Cell Biology, Genetics, Evolution and Ethology (Section I)

Name of the teacher: Ms. Akshata P. Sutar

Course: B. Sc. II

Month – January- 2024				
Lectures	Practicals	Total	UNIT-II	Structure of Biomolecules - DNA, RNA and its types Ultra-structure of cell organelle Structure of prokaryotic and eukaryotic cell,
04	04	08		
Month- February-2024				
Lectures	Practicals	Total	UNIT- II	Ultra structure and function of – Plasma membrane, Nucleus, Mitochondria, Golgi apparatus, Endoplasmic reticulum, Ribosome, lysosomes
04	04	08		
Month- March-2024				
04	04	08	UNIT- II	Introduction to cell cycle and cell division Mendelian Genetics and its Extension Terminology in genetics, Principles of inheritance
Month- April-2024				
02	02	04	UNIT- II	Chromosomal theory of inheritance, Incomplete dominance and codominance, Multiple alleles with respect to ABO

Ms. Akshata P. Sutar

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Term II


Semester: VI

Subject: Ecology and Toxicology

Name of the teacher: Ms. Akshata P. Sutar

Course: B. Sc. III

Month-December-2023			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	UNIT-II	Definition, history, scope & divisions of toxicology.
02	-	02		
Month – January- 2024				
Lectures	Practicals	Total	UNIT-II	Brief idea of- Dose-effect and dose-response relationship - acute toxicity, sub-acute toxicity, chronic toxicity, organ specific toxicity (neurotoxicity, hepatotoxicity, nephrotoxicity)
04	-	04		
Month- February-2024				
Lectures	Practicals	Total	UNIT-II	Heavy metal Toxicity- Mercury, lead, cadmium. Classification of toxic agents- Natural toxins, animal toxins
04	-	04		
Month- March-2024				
02	-	02	UNIT-II	plant toxins, food toxins, and chemical toxins


Ms. Akshata P. Sutar


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Term II

Semester: II

Subject: Structural organisation in animal

Name of the teacher: Ms. Pratiksha R. Gaikwad

Course: B. Sc. I

Month – January, 2024			Module unit	Sub unit planned
Lectures	Practicals	Total	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
04	04	08		
Month- February, 2024				
08	04	12	UNIT-I	Types of animal tissues a. Epithelial tissue b. Connective Tissue c. Muscle tissue d. Neural tissue Sense organ- Photoreceptor, Tangoreceptors, Statoacoustic
Month- March, 2024				
08	04	12	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
Month- April, 2024				
04	02	06	UNIT- II	f. Respiratory system g. Skeletal system h. Endocrine gland

Pratiksha R. Gaikwad

Ms. Pratiksha R. Gaikwad

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