Shri Shivaji Education Society, Amravati's

SHRI PUNDLIK MAHARAJ MAHAVIDYALAYA, NANDURA (RLY)

Department of Zoology

E-Content Link
Class- B. Sc-I, SEM-I

Sr. No	Name of Teacher	Topic Name	Notes & Power point Link
1.	Mr. S. B. Bhoye	**UNIT-I :** 1. Classification of Non-Chordata. 2. Phylum Protozoa: General characters. 3. Type study: Plasmodium vivax: Structure, Life-cycle. 4. Parasitic protozoan and human diseases': Malaria, Amoebiasis, Trypanosomiasis, Leishmaniasis	https://drive.google.com/drive/folders/19UDeKvrFoYDdE8SYU32KjcFr79PSfr9q
2.	Mr. S. B. Bhoye	**UNIT-II :** 1. Phylum Porifera: General Characters. 2. Type study: Scypha: Habits and habitat, External features, cell types, spicules & Structure and significances of canal system. 3.Phylum Coelenterata: General Characters, 4. Type study: Metridium: Habits and habitat, External features, Gastro-vascular cavity, Mesenteries, Reproduction.	https://drive.google.com/drive/folders/19UDeKvrFoYDdE8SYU32KjcFr79PSfr9q

3.	**Mr. S. B. Bhoye**	**UNIT-III:** 1. Phylum Platyhelminthes: General Characters. 2. Type study: Fasciola hepatica: Habits and habitat, External features, Digestive, Excretory, Reproductive system and Life cycle. 3. Phylum Aschelminthes: General Characters. 4. Type study, Ascaris lumbricoides: Habits and habitat, External features, Digestive, Excretory, Reproductive system and Life cycle.	https://drive.google.com/drive/folders/19UDeKvrFoYDdE8SYU32KjcFr79PSfr9q
4.	**Mr. S. B. Bhoye**	**UNIT-IV:** 1. Phylum Annelida: General Characters. 2. Type study: Leech: External features, Digestive, Excretory and Reproductive system. 3. Phylum Arthropoda: General Characters 4. Type study: Cockroach: Habits and habitat, External features, Digestive system, Respiratory system, Reproductive system.	https://drive.google.com/drive/folders/19UDeKvrFoYDdE8SYU32KjcFr79PSfr9q
5.	**Ms. T.R.Marakwad**	**UNIT-II :** 1. Phylum Porifera: General Characters. 2. Type study: Scypha: Habits and habitat, External features, cell types, spicules & Structure and significances of canal system.	https://docs.google.com/presentation/d/1caF-2bX3n8tS9naE73ztcqjYqL_DQgpC/edit?usp=sharing&ouid=102574873907262589518&rtpof=true&sd=true

		3.Phylum Coelenterata: General Characters, 4. Type study: Metridium: Habits and habitat, External features, Gastro-vascular cavity, Mesenteries, Reproduction.	
6.	**Mr. S. D. Jadhav**	**UNIT-I :** 1. Classification of Non-Chordata. 2. Phylum Protozoa: General characters. 3. Type study: Plasmodium vivax: Structure, Life-cycle. 4. Parasitic protozoan and human diseases': Malaria, Amoebia-sis, Trypanosomiasis, Leishmaniasis .	https://drive.google.com/file/d/1YIPqiJ6eq7atlORFbcgAEsgqJ4gMDVH/view?usp=sharing
7.	**Mr. S. D. Jadhav**	**UNIT-II :** 1. Phylum Porifera: General Characters. 2. Type study: Scypha: Habits and habitat, External features, cell types, spicules & Structure and significances of canal system. 3. Phylum Coelenterata: General Characters, 4. Type study: Metridium: Habits and habitat, External features, Gastro-vascular cavity, Mesenteries, Reproduction.	https://drive.google.com/file/d/1wP26EYTTBIkulCcsXGkggypSOlKESCm9/view?usp=sharing
8.	**Mr. S. D. Jadhav**	**UNIT-III:** 1. Phylum Platyhelminthes: General Characters. 2. Type study: Fasciola hepatica: Habits and habitat, External fea-tures, Digestive, Excretory, Reproductive system and Life cycle. 3. Phylum Aschelminthes: General Characters. 4. Type study, Ascaris lumbricoides: Habits and habitat, Exter-nal features, Digestive, Excretory, Life cycle.	https://drive.google.com/file/d/1fbOdCKVvoOzSf1qj7CodaEDAJmfPRtw/view?usp=sharing

9.	**Mr. S. D. Jadhav**	**UNIT-IV:** 1. Phylum Annelida: General Characters. 2. Type study: Leech: External features, Digestive, Excretory and Reproductive system. 3. Phylum Arthropoda: General Characters 4. Type study: Cockroach: Habits and habitat, External features, Digestive system, Respiratory system, Reproductive system.	https://drive.google.com/file/d/1ma7d1WhmMOUtbO1qBUdD7tDVT3DNvIVJ/view?usp=sharing
10.	**Mr. S. D. Jadhav**	**UNIT-V :** 1. Phylum Mollusca: General Characters. 2. Type study: Pila globosa: Habits and habitat, External features (Shell and Body), Digestive, Respiratory and Reproductive system. 3. Phylum Echinodermata: General Characters. 4. Type study: Asterias: Habits and habitat, External features, Digestive system, Water vascular system,	https://drive.google.com/file/d/12MKzLMEBspJ_b4jM9CKuwsRqcVTdhdS/view?usp=sharing
11.	**Mr. S. D. Jadhav**	**UNIT-VI :** 1. Phylum Hemichordata: General Characters, Body organization of Balanoglossus, Affinities of Balanoglossus, with non-Chordata, and Chordata. 2. Corals, coral-reefs. 3. Parasitic adaptations in Helminthes: Morphological and physiological 4. Larval forms and their significance: Amphiblastula, Planula, Trochophore, Bipinnaria, Brachiolaria,	https://drive.google.com/file/d/1sEW7mHnwuVvMJxXUCaO3ivoHqkPAc/view?usp=sharing

E-Content Link
Class- B. Sc-I, SEM-II

Sr. No	Name of Teacher	Topic Name	Notes & Power point Link
1.	Mr. S. D. Jadhav	**UNIT- I** 1. General organization of Prokaryote and Eukaryote Cell. 2. Ultra structure and functions of, Plasma membrane 3. Ultra structure types and functions of, Endoplasmic reticu-lum	https://docs.google.com/presentation/d/1P-N1nhdOYqiGyK1uPTzySAfzU8_n4ise/edit?usp=sharing&ouid=102574873907262589518&rtpof=true&sd=true
2.	Mr. S. D. Jadhav	**UNIT-II:** 1. Ultra structure and functions of, Golgi complex 2. Ultra structure and functions of Ribosome 3. Ultra structure and functions of Mitochondria. 4. Ultra structure and functions of Lysosomes.	https://drive.google.com/file/d/1IV8L4CFy9hxmb1MEkvQxfcYPC3N0YLJ8/view?usp=sharing https://drive.google.com/file/d/1nZ11-3CCuIPNt81rx_3R9gVc_deIRl3v/view?usp=sharing
3.	Mr. S. D. Jadhav	**UNIT-III:** 1. Ultra structure and functions of nucleus and nucleolus. 2. Chromosome and its general organization. 3. Structure of Polytene and Lamp brush Chromosome.	https://drive.google.com/file/d/1P02X8CjlNuqfr02svXi38ePkEgWLFqQi/view?usp=sharing https://drive.google.com/file/d/1NH_sypkXwJnYiRYbIztokTD0uohiQZTU/view?usp=sharing
4.	Mr. S. D. Jadhav	**UNIT-IV:** 1. Mitosis and its significance 2. Meiosis and its significance.	https://drive.google.com/file/d/1F8JIJxPiVYybQm9Uqk7NcIBiVsk63vDV/view?usp=sharing https://drive.google.com/file/d/1xgLy4_vynM7Td54xB5MV8tro1U3snCUW/view?usp=sharing
5.	Mr. S. D. Jadhav	**UNIT V:** 1 Cleavage, and development up to coelome formation in am-phioxus 2. Cleavage, Blastulation and gastrulation up to the formation of three germ layers in Frog, Fate map.	https://drive.google.com/file/d/1pkjPS2w-ENJzfGKUO1UHVCN9eu5aitF_/view?usp=sharing

		3. Cleavage, Blastulation and gastrulation up to the formation of three germ layers in chick. 4. Extra embryonic membranes in chick: Development and significance.	
6.	**Mr. S. D. Jadhav**	**UNIT V:** 1 Cleavage, and development up to coelome formation in amphioxus 2. Cleavage, Blastulation and gastrulation up to the formation of three germ layers in Frog, Fate map. 3. Cleavage, Blastulation and gastrulation up to the formation of three germ layers in chick. 4. Extra embryonic membranes in chick: Development and significance.	https://drive.google.com/file/d/1pkjPS2wENJzfGKUO1UHVCN9eu5aitF_/view?usp=sharing
7.	**Mr. S. B. Bhoye**	**UNIT-II:** 1. Ultra structure and functions of, Golgi complex 2. Ultra structure and functions of Ribosome 3. Ultra structure and functions of Mitochondria. 4. Ultra structure and functions of Lysosomes.	https://drive.google.com/drive/folders/1QcblLLwPPzkdtrd66XJar2J6pGtTErCt
8.	**Mr. S. B. Bhoye**	**UNIT-III:** 1. Ultra structure and functions of nucleus and nucleolus. 2. Chromosome and its general organization. 3. Structure of Polytene and Lamp brush Chromosome.	https://drive.google.com/drive/folders/1QcblLLwPPzkdtrd66XJar2J6pGtTErCt
9.	**Mr. S. B. Bhoye**	UNIT-IV: 1. Mitosis and its significance 2. Meiosis and its significance.	https://drive.google.com/drive/folders/1QcblLLwPPzkdtrd66XJar2J6pGtTErCt

E-Content Link
Class- B. Sc-II, SEM-III

Sr. No.	Name of Teacher	Topic Name	Notes & Power point Link
1.	Mr. S. B. Bhoye	**UNIT-I :** **Phylum Chordata;** Origin of Chordata. **Protochordates:–** Type study: Amphioxus: Habits and habitat , External Characters - Digestive system and feeding, Excretory organs, gonads- Affinities of Amphioxus.	https://drive.google.com/drive/folders/1RnVjKKRCug2Y3uG5sz_OddsV4EQ1IoCk
2.	Mr. S. B. Bhoye	**Series Picses:** Type study: Scoliodon sarrokawah (Dogfish) – Habits and habitat, External Characters, Digestive system: alimentary canal and digestive glands, Respiratory system: respiratory organ and mechanism of respiration, c	https://drive.google.com/drive/folders/1RnVjKKRCug2Y3uG5sz_OddsV4EQ1IoCk
3.	Mr. S. B. Bhoye	**UNIT-II :** **Class Amphibia:** Type Study – Rana tigerina, Habits and habitat, external, characters. Respiratory organs-Circulatory system; Structure of Heart	https://drive.google.com/drive/folders/1RnVjKKRCug2Y3uG5sz_OddsV4EQ1IoCk
4.	Mr. S. B. Bhoye	**Class Reptilia:** Type study- Calotes versicolor-Habits and habitat, External characters, circulatory system-Structure of Heart, major arteries and veins. Urinogenital system, snake venom and anti-venom	https://drive.google.com/drive/folders/1RnVjKKRCug2Y3uG5sz_OddsV4EQ1IoCk
5.	Mr. S. B. Bhoye	**UNIT-III :** **Class Aves:** Type study: Pigeon-Columba livia Habits and habitat, External characters, Respiratory system	https://drive.google.com/drive/folders/1RnVjKKRCug2Y3uG5sz_OddsV4EQ1IoCk
6.	Mr. S. B. Bhoye	**Class Mammalia:** Primitive mammals: salient features of Prototheria and Metatheria.	https://drive.google.com/drive/folders/1RnVjKKRCug2Y3uG5sz_OddsV4EQ1IoCk

E-Content Link

Class- B. Sc-II, SEM-IV

Sr. No	Name of Teacher	Topic Name	Notes & Power point Link
1.	Mr. S. B. Bhoye	**UNIT-I :** **Concept of genes.** Mendel`s laws of hereditary – Monohybrid – Laws of dominance, law of segregation. Dihybrid cross – Law of independent assortment.	https://drive.google.com/drive/folders/1yYENIJ3mLqliwQJPEfhf76aCeb8Brdpe
2.	Mr. S. B. Bhoye	**UNIT-II :** **Linkage** - Types of linkage, linkage group, arrangement of linked genes, and significance of linkage.	https://drive.google.com/drive/folders/1yYENIJ3mLqliwQJPEfhf76aCeb8Brdpe
3.	Mr. S. B. Bhoye	**UNIT-III :** **Sex determination:** Autosomes and sex chromosomes, Sex determination in animals, Chromosomal Theory.	https://drive.google.com/drive/folders/1yYENIJ3mLqliwQJPEfhf76aCeb8Brdpe
4.	Mr. S. B. Bhoye	**UNIT-V :** **Ecology:** concept and scope: **Abiotic factors:** Water: Properties, water problem in terrestrial and aquatic habitat. Temperature: Temperature range, Temperature tolerance, Effects of temperature on animals.	https://drive.google.com/drive/folders/1yYENIJ3mLqliwQJPEfhf76aCeb8Brdpe

E-Content Link

Class- B. Sc-III, SEM-V

Sr. No	Name of Teacher	Topic Name	Notes & Power point Link
1.	Mr. S. B. Bhoye	**UNIT-I :** **Respiration:** Structure of respiratory organs: Gills and Lungs Mechanism of respiration: regulation of ventilation in lungs,	https://drive.google.com/drive/folders/1uaMbJsn1v9XMaC6ooEBmlRe75bgArw2k
2.	Mr. S. B. Bhoye	**Circulation:** Blood: Definition and its constituents, functions of blood. Heart: Structure of human heart, pace maker, Cardiac cycle	https://drive.google.com/drive/folders/1uaMbJsn1v9XMaC6ooEBmlRe75bgArw2k
3.	Mr. S. B. Bhoye	**UNIT-III :** **Nerve Physiology:** Neuron: E.M. Structure of nuron andTypes : Myelinated and non-Myelinated nerve fibres. Conduction of Nerve impulse	https://drive.google.com/drive/folders/1uaMbJsn1v9XMaC6ooEBmlRe75bgArw2k
4.	Mr. S. B. Bhoye	**UNIT-IV :** **Reproductive Physiology:** Estrous and menstrual cycle, hormonal control of reproduction in males and female, Structure and physiology of mammalian Placenta.	https://drive.google.com/drive/folders/1uaMbJsn1v9XMaC6ooEBmlRe75bgArw2k

5.	**Ms. T.R. Marakwad**	**UNIT-IV: Aquaculture**	https://docs.google.com/presentation/d/1HP42agDmpoj_NJaicJIswYWnPcJev1ce/edit?usp=sharing&ouid=102574873907262589518&rtpof=true&sd=true https://docs.google.com/presentation/d/1YbvQLRiagx0i0nY0GyAQf6xLsWt_vKNf/edit?usp=sharing&ouid=102574873907262589518&rtpof=true&sd=true https://docs.google.com/presentation/d/1dRU13j5QgNC6W2VIKvB8ngIz3AReoeDi/edit?usp=sharing&ouid=102574873907262589518&rtpof=true&sd=true https://docs.google.com/presentation/d/1PJby4kRxJ08BjlPlFiNdgbYPB7kq6GdZ/edit?usp=sharing&ouid=102574873907262589518&rtpof=true&sd=true https://docs.google.com/presentation/d/16Y4KV1vV9CEMK7FgCu6YOf8cV8q96KmN/edit?usp=sharing&ouid=102574873907262589518&rtpof=true&sd=true

E-Content Link

Class- B. Sc-III, SEM-VI

Sr. No	Name of Teacher	Topic Name	Notes & Power point Link
1.	Mr. S. B. Bhoye	**UNIT-I:** Genetic material-definition, Experiments to prove DNA as genetic material: Griffiths transformation experiments with bacteriophage infections	https://drive.google.com/drive/folders/16TkdhUXurvpF3yl1JNYQyU04U2HVwV0
2.	Mr. S. B. Bhoye	**UNIT-II:** DNA replication: semi conservative method; experiment by Messelson and Stahl. Concept of genes, one gene one enzyme hypothesis, one gene one Polypeptide theory	https://drive.google.com/drive/folders/16TkdhUXurvpF3yl1JNYQyU04U2HVwV0
3.	Mr. S. B. Bhoye	**UNIT-III:** Genetic code and its features, Protein synthesistranscription and processing of mRNA	https://drive.google.com/drive/folders/16TkdhUXurvpF3yl1JNYQyU04U2HVwV0
4.	Mr. S. B. Bhoye	**UNIT-IV:** Mutation: Definition-mutation theory of DeVriesdifferent types of mutations, - molecular basis of mutation: substitution and frameshift mutations, chromosomal aberrationsstructural(deletion,	https://drive.google.com/drive/folders/16TkdhUXurvpF3yl1JNYQyU04U2HVwV0