

|| JAI SRI GURUDEV || SRI ADICHUNCHANAGIRI FIRST GRADE COLLEGE, C R PATANA-573116.

Department of Zoology

LESSION PLAN FOR THE ACADEMIC YEAR 2023-24(NEP)

(Annexure-1.2) Criterion 01 (Metric- 1.1.1)

Paper name: Cytology, Genetics and Infectious diseases

Programme

: B.Sc. Hons

Class

: I SEM (DSC)

Total Hours: 28 hours

Name of the faculty: KMR

Duration

Sl.No.	Topics Covered	No. of Lecture Hours	Methodology/ pedagogy	Time period 01/09/2023 to
01.	Chapter 1. Structure and Function of Cell Organelles I in Animal cell. Plasma membrane: chemical structure-lipids and proteins. Endomembrane system: protein targeting and sorting, transport, endocytosis and exocytosis. Chapter 2. Structure and Function of Cell Organelles II in Animal Cell. Cytoskeleton: microtubules, microfilaments, intermediate filaments. Mitochondria: Structure, oxidative phosphorylation; electron transport system. Peroxisome and Ribosome: structure and function.	14	Lectures/Video s / Seminars/Proje ct/ Group discussion/ Assignment	30/10/2023
02.	Capter 3. Nucleus and Chromatin Structure - Structure and function of nucleus in eukaryotes, Chemical structure and base composition of DNA and RNA, DNA supercoiling, chromatin organization, structure of chromosomes, Types of DNA and RNA. Chapter 4. Cell cycle, Cell Division and Cell Signaling -Cell division: mitosis and meiosis, Introduction to Cell cycle and its regulation, apoptosis, Signal transduction: intracellular 11 signaling and cell surface receptors, via G-protein linked receptors, Cell-cell interaction: cell adhesion molecules,		Lectures/Video s / Seminars/Proje ct/ Group discussion/ Assignment	01/11/2023 to 10/12/2023
	cellular junctions	-		25/12/202
03.	Revision			



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56 Hrs.

- 1. Understanding of simple and compound microscopes.
- 2. To study different cell types such as buccal epithelial cells, neurons, striated muscle cells using 3. Methylene blue/any suitable stain (virtual/ slaughtered tissue).
- 3. To study the different stages of Mitosis in root tip of Allium cepa.
- 4. To study the different stages of Meiosis in grasshopper testis (virtual).
- 5. To check the permeability of cells using salt solution of different concentrations.
- 6. Study of parasites in humans (e.g. Protozoans, Helminthes in compliance with examples beingstudied in theory) permanent microslides.
- 7. To learn the procedures of preparation of temporary and permanent stained slides, with available mounting material.
- 8. Study of mutant phenotypes of Drosophila sp. (from Cultures or Photographs).
- 9. Preparation of polytene chromosomes (Chironomus larva or Drosophila larva).
- Preparation of human karyotype and study the chromosomal structural and numerical aberrations from the pictures provided. (Virtual/optional).
- 11. To prepare family pedigrees
- 12. Revision

2ndweek of Sep 3rdweek of Sep

4th week of Sep

to

2st week of Oct 3rdweek of Oct

4thweek of Oct



Istweek of Nov

2ndweek of

4th week ofNov 1st week ofDec

2nd to 3rd week of Dec



Total Hours: 28 hours

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Department of Zoology LESSION PLAN FOR THE ACADEMIC YEAR 2023-24

(Annexure-1.2) Criterion 01 (Metric- 1.1.1)

Paper name: Molecular Biology, Bioinstrumentation & Techniques in Biology

Programme

: B.Sc. Hons (NEP)

Class

: III SEM (DSC)

Name of the faculty: KMR

Duration

SI. No	Particulars	No. of Lectu re Hours	Methodology/p edagogy	Time period
01.	 Chapter 1:Process of Replication and Transcription Fine structure of gene (Cistron, Recon, Muton) DNA polymerase types and function. Semiconservative model of replication. Replication in Prokaryotes (Initiation, Elongation, Termination) RNA polymerases - types and functions Transcription in prokaryotes and eukaryotes 	08	Lectures/Videos / Seminars/ Group discussion/ Assignment	01/09/2023 to 30/09/2023
02.	Chapter 2: Process of Translation • Genetic code and its salient features • Translation in prokaryotes and eukaryotes	06	Lectures/Videos / Seminars/ Group discussion/ Assignment	01/10/2023 to 22/10/2023
03.	Chapter 3. Regulation of gene expression-I Regulation of gene expression in prokaryotes- lac operon (inducible) and trp operon (repressible) in E. coli Regulation of gene expression in eukaryotes - Role of chromatin (euchromatin and heterochromatin) in gene expression Post-transcriptional modification: capping, splicing, polyadenylation• Concept of RNA editing (mRNA), gene silencing, and, RNA	08	Lectures/Videos / Seminars/ Group discussion/ Assignment	23/10/2023 to 20/11/2023
04.	Chapter 4. Regulation of gene expression-II Post- translational modifications: purpose, advantages, and significance; glycosylation,• methylation, phosphorylation, and acetylation. Intracellular protein	1	Lectures/Videos / Seminars/Group discussion/	22/11/2023 to 10/12/2023



	degradation (lysosomal autoproteosome pathway.	ophagy and	ubiquitin	Assignment	
09.	Revision			06/12/2023 to 14/	12/2023

List of labs to be conducted 56 Hrs.	
1. To study the principle and applications of simple, compound and binocular I	2 nd weekof Sep
microscopes.	3 rd week of Sep to
2. To study the principle and applications of various lab equipments- pH 2 meter,	1st week of Oct
Electronic balance, Vortex mixer, use of glass pipette and micropipettes, Laminar	
air flow, Incubator, shaker, Water bath and centrifuge.	1 nd week of Oct
3. To prepare Buffer solutions (Phosphate, Citrate, Tris-HCl buffer)	2 nd week of Oct to
4. To estimate amount of RNA by Orcinol method.	3 rd week of Oct
5. Demonstration of differential centrifugation to fractionate components in a	4 th week of Oct
given mixture.	1 st and 2 nd week
6. To estimate amount of protein by Lowry's method.	
7. To identify different unknown amino acids using ascending paper	of Nov
chromatography.	3 rd week of Nov
8. Extraction of DNA from the given animal tissue sample.	4 th week of Nov
9. To estimate amount of DNA by di-phenyl amine (DPA) method.	1st week of Dec
10 Revision	2 nd week of Dec



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LESSION PLAN FOR THE ACADEMIC YEAR 2023-24 (Annexure-1.2) Criterion 01 (Metric- 1.1.1)

Total Hours: 60 hours

Paper name: Chordates and Comparative Anatomy (Theory)

Programme

: B.Sc. (NEP)

Class

: V SEM

Name of the faculty

: KMR

Duration

Sl. No	Particulars	No. of Lecture Hours	Methodology /pedagogy	Time period
01.	Unit-1 Chapter1: Chordates: General characters of each class of chordate withsuitable examples. Origin of Chordates. Basic characters of chordates and classification up to classes. Chapter2: Hemichordata:	15	Lectures/Vide os / Seminars/ Group discussion/ Assignment	01/09/2023 to 25/09/2023
	Type Study of Balanoglossus—Habit and Habitat, Morphology, Coelom. Tornaria larva and its affinities.			
)	Affinities and systematic position of Hemichordata.			
	Chapter3:Urochordata: Type Study of Herdmania-Habit and Habitat, Morphology, AscidianTadpole-structure and its			
	retrogressive metamorphosis. Chapter 4: Cephalochordata: Type Study of Branchiostoma (Amphioxus)-Habit and Habitat, Morphology, Digestive system, Feeding mechanism, excretory and circulatory		FI- II L	
	system. Chapter5: Agnatha General characters of Agnatha and classification up to classes. Salient features of Cyclostomata and Ostracodermi with			
	orders And examples. • Ammocoete larva and its significance.			

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11/11/11/11/11/11/11/11/11/11/11/11/11/	
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02.	Chapter 6: Vertebrates; Ciencial characters and Classification of different classes of vertebrates (Places, Amphibia, Reptilia, Aves, Manunalia) upto the order with five characters for each order citing examples. Ciencial characters of Chandrichthyes and Osteichthyes. Interesting features and evolutionary significance of Dipnot. National features of Placederni withexamples. Interesting features of Spherochen, crocodile and Archooptery. Malient features of Ratifice and Carinatae with examples. Interesting features of manunalian orders (Insectivora, Carnivora, Chiroptera, Cetacea, Proboscidia, Ungulata Periscolactyla and Articelactyla, and Primates. Platyrbini and Catachini) with examples.	15	Lectmes/Vide us / Seminors/ Circup discussion/ Assignment		
03.	Unit-111 Chapter 7, General account of Chordates; Types of candal fins, scales and swim bladder in fishes. Origin of Amphibia. Neoteny and Paedogenesis. Adaptive radiation in extinct reptiles with suitable examples. Temporal fossae in reptiles. Poison apparatus and biting mechanism in snakes. Parental care in Pisces and Amphibians, Flight adaptations in birds. Dentition in mammals, Evolution of molar tooth, Migration in Pisces, Birds and Mammals.	15	Lectures/Vide os / Seminars/ Group discussion/ Assignment	21/10/2023 to 15/11/2023	
0.4.	Unit-IV Comparative Anatomy of Vertebrates: Chapter 8. Integumentary System: Structure of skin and its derivatives. Chapter 9. Skeletal System Comparative account of Axial Skeletal system in vertebrates; Skull- Amphibian (Frog.), Reptiles (Lizard), Aves (Pigeon) and Mammals (Man). Comparative account of Appendicular skeletal system in vertebrates- Pectoral and Pelvic girdles of Amphibian (Frog.), Reptiles (Lizard), Aves (Pigeon) and Mammals (Man). Chapter-7 Respiratory system Comparative account of respiratory system in	15	Lectures/Vide os / Seminars/Gro up discussion/ Assignment	16/11/2023 to 05/12/2023	

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	vertebrates: Pisces (Scolidon), Amphibian (Frog), Reptiles (Lizard), Aves (Pigeon) and Mammals (Man).	ii.	
	Chapter-8 CirculatorySystem		
	Comparative account of heart and aortic arches in vertebrates: Pisces (Scoliodon), Amphibian (Frog), Reptiles (Lizard), Aves (Pigeon) and Mammals (Man). Chapter-9 Excretory System		
	Succession of kidney in vertebrates.		
	Chapter-9 Nervous system Comparative account of brain in vertebrates: Pisces (Scoliodon), Amphibian (Frog), Reptiles (Lizard), Aves (Pigeon) and Mammals (Man).	,	
05.	Revision	06/12/2023 to 1	4/12/2023



List of labs to be conducted 60 Hrs.	
1. Protochordata:	2ndal a C C
Balanoglossus and its T. S. through proboscis	2 nd weekof Sep
To the state of th	3rd week of Sep
through pharynx and intestine.	
 Cyclostomata: -Petromyzon, Ammocoete larva and Myxine. Pisces: 	3rd week of Sep
4. Cartilaria to	3 week of Sep
 Cartilaginous Fishes - Narcine, Trygon, Pristis, Myolobatics Bony Fishes - Zebrafish, Hippocampus, M. 	
5. Bony Fishes Zebrafish, Hippocampus, Muraena, Ostracion, Tetradon, Pleuronectus	
Tetradon, Pleuronectus,	4th week of Sep
6. Ornamental fishes:	
-Siamese, Koi, Oscar, Betta Sp., Neon tetra, Guppies, Goldfish, Angle fish, Rainbow fish, Mollies	eth .
Angle fish, Rainbow fish, Mollies	4th week of Sep
U-Ucally available and C.	.=
	1" week of Oct
Anabas Diodon, Echineis (Any four)	
· · · · · · · · · · · · · · · · · · ·	2nd week of Oct
Rana, Bufo, Ambystoma, Axolotllarva, Necturus and	2 week of Oct
Ichthyophis. O. Reptilia:	li w s
-Turtle Testa' 14	3rd and 4th week of Oct
-Turtle, Tortoise, Mabuya, Calotes, Chameleon, Varanus, snakes-Dryophis, Rat spales, Post,	
7 Pins, Nat Stidke, Branmini Cohen Paris D	
1. Aves: Beak and feet modifications in the following	
Champies. Duck, Crow, Sparrow Parrot Kinglisher	1st week of Nov
Lagic of Hawk. (Any four)	
2. Mammalia:	1st week of Nov
Mongoose, Squirrel, Pangolin, Hedge Hog, Rat and Loris. (Any	
1,5 41 /	2 nd week of Nov
3. Virtual Dissection/Cultured specimens:	
Shark/Bony lish: Afterent and efferent branchial systems	3rd week of Nov
giosso-pharyngeal and Vagusnerves	4th week of Nov
. Virtual Dissection/Cultured specimens:	incek of Nov
Rat: Dissection (only demonstration)—Circulatory system	1st week of Dec
(arterial and venous), Urinogenital system.	1 Week of Dec
- 16. Skeletal System in Shark/ Frog/ Pigeon/ Rabbit: Skull,	2 nd week of Dec
vertebrae, girdles andlimb bones (Except hands and feet)	2 Week of Dec
16. Revision	

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LESSION PLAN FOR THE ACADEMIC YEAR 2023-24(NEP)

(Annexure-1.2) Criterion 01 (Metric- 1.1.1)

Paper name: Cytology, Genetics and Infectious diseases

Programme

: B.Sc. Hons

Class

: 1 SEM (DSC)

Total Hours: 28 hours

Name of the faculty: MN

Duration

SI.No.	Topics Covered	No. of Lecture Hours	Methodology/ pedagogy	Time period
01.	Chapter 5. Mendelism and Sex Determination Basic principles of heredity: Mendel's lawsmonohybrid cross and hybrid cross, Complete and Incomplete Dominance, Penetrance and expressivity, Genetic Sex-Determining Systems, Environmental Sex Determination, Sex Determination and mechanism in Drosophilamelanogaster. Sex-linked characteristics in humans and dosage compensation. Chapter 6. Extensions of Mendelism, Genes and Environment Extensions of Mendelism: Multiple Alleles, Gene Interaction. The Interaction Between Sex and Heredity: Sex-Influenced and Sex-Limited. Characteristics Cytoplasmic Inheritance, Genetic Maternal Effects. Interaction between Genes and		Lectures/Video s / Seminars/Proje ct/ Group discussion/ Assignment	01/09/2023 to 30/10/2023
	Environment: Environmental Effects on Gene Expression, Inheritance of Continuous Characteristics.			

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02.	Chapter 7.	14	Lectures/Video	01/11/2023 to
	Human Chromosomes and Patterns of		s/	10/12/2023
	Inheritance Patterns of inheritance: autosomal		Seminars/Proje	6.4
	dominance, autosomal recessive, X-linked recessive,		ct/ Group	
	X-linked dominant. Chromosomal anomalies:		discussion/	
	Structural and numerical aberrations with examples.		Assignment	
	Human karyotyping and Pedigree analysis.			
	Chapter 8.			
	Infectious Diseases Introduction to pathogenic			
	organisms: viruses, bacteria, fungi, protozoa and			
	worms. Structure, life cycle, pathogenicity,			
- 2	including diseases, causes, symptoms and control			
	of common parasites: Trypanosoma, Giardia and			
	Wuchereria.			
03.	Revision			25/12/2023
	List of labs to be conducted	56 Hrs	i.	
1. Und	erstanding of simple and compound microscopes.			2 nd week of Sep
2. To s	tudy different cell types such as buccal epithelial cells, n	eurons, stri	ated muscle cells	3 rd week of Sep
usi	ng 3. Methylene blue/any suitable stain (virtual/ slaughte	red tissue).		
3. To s	tudy the different stages of Mitosis in root tip of Allium	cepa.		4 th week of Sep
4. To s	tudy the different stages of Meiosis in grasshopper testis	(virtual).		to
5. To c	heck the permeability of cells using salt solution of diffe	rent concer	trations.	2 st week of Oct
6. Stud	ly of parasites in humans (e.g. Protozoans, Helminthes in	n compliant	ce with examples	3 rd week of Oct
bei	ngstudied in theory) permanent microslides.			4 th week of Oct
7. To 1	earn the procedures of preparation of temporary and pe	rmanent sta	ined slides, with	
ava	ilable mounting material.			
8 Stud	ly of mutant phenotypes of Drosophila sp. (from Cultures	s or Photog	raphs).	1stweek of Nov
O Dran	eration of polytene chromosomes (Chironomus larva or	Drosophila	larva).	nd
10 Pre	eparation of human karyotype and study the chromoson	nal structur	al and numerical	2 nd week ofNov
ahe	errations from the pictures provided. (Virtual/optional).			4 th week of Nov
	prepare family pedigrees			1 st week ofDec
12. Re				2 nd to 3 rd week
12.10	1017.			CD.

of Dec



Total Hours: 28 hours

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LESSION PLAN FOR THE ACADEMIC YEAR 2023-24

(Annexure-1.2) Criterion 01 (Metric- 1.1.1)

. Paper name: Molecular Biology, Bioinstrumentation & Techniques in Biology

Programme

: B.Sc. Hons (NEP)

Class

: III SEM (DSC)

Name of the faculty: MN

Duration

SI. No	Particulars	No. of Lecture Hours	Methodology /pedagogy	Time period
01.	Chapter 5: Microscopy Principles and applications of Light microscopy, Dark field microscopy, Phase contrast• microscopy, Fluorescence microscopy, Confocal microscopy and Electron microscopy (SEM and TEM).	09	Lectures/Vide os / Seminars/Gro up discussion/ Assignment	01/09/2023 to 30/09/2023
02.	Chapter 6: Centrifugation and Chromatography Centrifugation: Principles, types, and applications• (High speed and Ultracentrifugation) Chromatography : Principle and applications of: TLC, HPLC and GC•	05	Lectures/Vide os / Seminars/Gro up discussion/ Assignment	01/10/2023 to 22/10/2023
03.	Chapter 7: Biochemical Instrumentation Colorimetry and Spectrophotometry: Beer- Lambert'slaw, Absorption spectrum, UV-VL Spectrophotometer. pH meter, measurement of pH Principle, applications and safety measures of Radio- tracer techniques - Autoradiography	06	Lectures/Vide os / Seminars/Gro up discussion/ Assignment	23/10/2023 to 15/11/2023
04.	Chapter 8: Molecular Techniques Principle and applications of Agarose gelelectrophoresis, SDS-PAGE, DNA Sequencing• (Sanger's Dideoxy method) ,PCR, DNA Fingerprinting, ELISA, Southern•& Northern Blotting and Western Blotting	08	Lectures/Vide os / Seminars/ Group discussion/ Assignment	16/11/2023 to 05/12/2023
05.	Revision		06/12/2023 to 1	4/12/2023



List of labs to be conducted 56 Hrs.	
1. To study the principle and applications of simple, compound and binocular 1	2 nd weekof Sep
microscopes.	3rd week of Sep to
2. To study the principle and applications of various lab equipments- pH 2 meter,	1st week of Oct
Electronic balance, Vortex mixer, use of glass pipette and micropipettes, Laminar air flow, Incubator, shaker, Water bath and centrifuge.	12.4.21.242.251.44
3. To prepare Buffer solutions (Phosphate, Citrate, Tris-HCl buffer)	Indweek of Oct
4. To estimate amount of RNA by Orcinol method.	2 nd week of Oct to
Constant of Art 2. The Constant of Constan	3 rd week of Oct
5. Demonstration of differential centrifugation to fractionate components in a	4th week of Oct
given mixture.	1st and 2nd week
6. To estimate amount of protein by Lowry's method.	of Nov
7. To identify different unknown amino acids using ascending paper chromatography.	3rd week of Nov
8. Extraction of DNA from the given animal tissue sample.	4th week of Nov
9. To estimate amount of DNA by di-phenyl amine (DPA) method.	1st week of Dec
10 Revision	2 nd week of Dec



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LESSION PLAN FOR THE ACADEMIC YEAR 2023-24

(Annexure-1.2) Criterion 01 (Metric- 1.1.1)

Paper name: Non-Chordates and Economic Zoology (Theory)

Total Hours: 60 hours

Programme

: B.Sc. (NEP)

Class

: V SEM

Name of the faculty

: MN

Duration

Sl.	Particulars	No. of	Methodology	Time period
No	a contract to the second of th	Lecture	/pedagogy	
		Hours		
01.	Unit-1 General characters, classification up to classes with suitable examples to all phyla 1. Protozoa to Coelenterate • Protozoa-Paramecium(Morphology and Reproduction) • Porifera-Sycon (Canal System) • Coelenterata – Obelia (Morphology and Reproduction) 2. Ctenophora to Nematheiminthes • Ctenophora –Salient feature • Platyhelminthes – Taenia (Tapeworm)(Morphology and Reproduction) • Nemathelminthes – Ascaris lumbricoides (Morphology and Reproduction)	15	Lectures/Vide os / Seminars/ Group discussion/ Assignment	01/09/2023 to 25/09/2023
02.	Unit-II 3. Annelida	15	Lectures/Vide os / Seminars/ Group discussion/ Assignment	26/09/2023 to 20/10/2023
03.	 Unit-III 5.Mollusca to Hemichordata Mollusca-Pila (Morphology, Shell, Respiration, Nervous System and Reproduction Echinodermata-Pentoceros (Morphology and 	15	Lectures/Vide os / Seminars/ Group discussion/ Assignment	21/10/2023 to 15/11/2023



	Water Vascular System)			
	•			
04.	Unit-IV 6.Economic Zoology: Vectors and Pests Life cycle and their control of following pests: Gundhi Bug. Sugarcane leafhopper, Rodents, Termites and Mosquitoes and their control 7.EconomicZoology: Lac-culture, Vermiculture and Poultry	15	Lectures/Vide os / Seminars/Gro up discussion/ Assignment	16/11/2023 to 05/12/2023
05.	Revision		06/12/2023 to 1	4/12/2023



List of labs to be conducted 60 Her	
1 Teparation and observed to the second to t	
Protozoa: Systematics of Amoeba, Euglena, Noctiluca, Paramecium Vorticella (Permanent slides).	2 nd weekof Sep 3 rd week of Sep
 Porifera: Systematics of Sycon, Euplectella, Hyalonema, Spongilla and Euspongia (Specimens). Study of permanent slides of T.S of Sycon, spicules and generalized. 	3 rd week of Sep
(Specimens). Slides of Hydra, Obelia-polyp and medusa, and Ephyra larva, T.S. of Metridium passing theory.	4 th week of Sep
Corallium, Gorgonia, Millepora and Pennatula,	4th week of Sep
 Helminthes: Systematics of Planaria, Fasciola hepatica and Taenia solium, Ascaris-Male and female (Specimens). Slides of T.S. of Planaria, T.S of male and female Ascaris. 	1st week of Oct
7. Annelida: Systematics of Nereis, Sabella, Aphrodite and Leech (Specimens) Slide of T.S. of Earthworm through typhlosole.	2 nd week of Oct
S. Arthropoda: Systematics of Panaeus, Palaemon, Astracus, Scorpion, Spider, Limulus, Peripatus, Millipede, Centipede, Prayingmantis, Termite Queen, Moth, Butterfly, Dung beetle / Rhinocerous beetle (Any six specimens). Slide of Larvae-Nauplius, Zoea and Mysis.	3 rd and 4 th week of Oct
Mollusca: Systematics of Chiton, Mytilus, Aplysia, Pila, Octopus, Sepia (Specimens) and Glochidium larva (Slide).	1st week of Nov
O.ShellPattern-Unio, Ostrea, Cypria, Murex, Nautilus, Patella, Dentalium, Cuttlebone. (Any four)	1 st week of Nov
1. Echinodermata: Systematics of Seastar, Brittlestar, Sea Urchin, Sea cucumber, Sealilly (Specimens). Slides of Bipinnaria larva, Echinopluteus larva and Pedicellaria.	2 nd week of Nov
Harmful Non chordates: Soil Nematodes. Agricultural, veterinary and human pests of Arachnida and Arthropoda.	3 rd week of Nov
3.Beneficial Non-chordates: • Sericulture: Lifecycle of Bombyx mori, Uzifly, Cocoon, Rawsilk. • Apiculture: Any 2 Species of honeybee	3 rd week of Nov
and bee wax. Pearl Culture: Pearl Oyster and Natural Pearls.	4 th week of Nov
14.VirtualDissection/Cultured specimens: Earthworm – Nervous system, Leech-Digestive System	1 st week of Dec
15. Virtual Dissection/Cultured specimens: Prawn-Nervous system. Cockroach-Salivary Apparatus and Digestive system.	2 nd week of Dec

16. Revision

H.O.D. of Zoology S. A. F. G. College Channarayapatna-573116 Principal
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