

Teaching Plan

Academic Year: 2017-18

Name of Department: ZOOLOGY

Name of Teacher: D.P. KORI

Class: B.SC. PART- I

Subject: ZOOLOGY Paper I

Course Type: Theory

Course Code / Title: Cell Biology and Non-chordata

Month/Week	Unit/ Title	Topic of Lecture	No. of lectures	Methods/Mode of Delivery
SEPTEMBER	Unit I	1. The cell (Prokaryotic and Eukaryotic) 2. Organization of Cell: Extra-nuclear and nuclear. Plasma membrane, Mitochondria, Endoplasmic reticulum, Golgi body, Ribosome and Lysosome). 3. Nucleus, Chromosomes, DNA and RNA	10	1. Chalk and talk method 2. Group discussion 3. Problem Solving
OCTOBER	Unit II	1. Cell division (Mitosis and Meiosis). 2. An elementary idea of Cancer cells And Cell transformation. 3. An elementary idea of Immunity: Innate & Acquired Immunity. Lymphoid organs, Cells of Immune System, Antigen, antibody and their interactions	13	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
NOVEMBER	Unit III	General characters and classification of Phylum Protozoa, Porifera, and Coelenterata up to order. 1. Protozoa: Type study - Paramecium. 2. Porifera: Type study - Sycon.	10	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
DECEMBER	Unit III & IV	3. Coelenterata: Type study - Obelia. 1. General characters and classification of Phylum Platyhelminthes, Nematelminthes, Annelida and Arthropoda up to order. 2. Arthropoda: Type Study - Palaemone.	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving

TEACHING PLAN
ACADEMIC YEAR-2017-18
COURSE TYPE- THEORY
NAME OF DEPARTMENT-ZOOLOGY

CLASS-B.SC-2ND

PAPER I / II

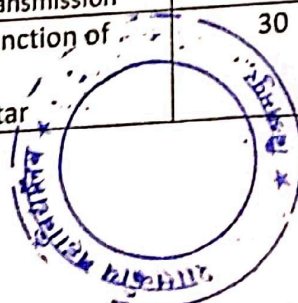
NAME OF TEACHER -D.P.KORI

COURSE CODE/TITLE-ANATOMY AND PHYSIOLOGYDB

VERTIBATE ENDOCRINOLOGY, REPRODUCTIVE BIOLOGY BEHAVIOUR EVOLUTION AND

APPLIED ZOOLOGY

MOUNTH/WE EK	UNIT TITTLE	TOPIC OF LECTURE	NO.OF LECT.	METHODS
SEPTEMBER	UNIT-1ST	1.Integument and its derivatives: structure of scales, hair and feather 2.alimentaey canal and digestive glands in vertebrates 3.respiratory organs:gills and lung, air-sac in birds	10	1.Chaked tallc method 2.grop Disseelury 3.Prolem solving
OCTOBER	UNIT-2 ND UNIT-3 RD	1.Endoskeleton :(a)Axial Skeleton -skull and vertebrae ,(b)Appendicular Skeleton Limbs and girdles 2.Circulatory Syestam:Evolution of heart and aortic arches 3.Urinogenital Syestam :Kindey and excretory ducts	20	1.Chaked tallc method 2.grop Disseelury 3.Prolem solving
NOVEMBER	UNIT-4 TH	1.Digestion and absorption of ditetary compnnents 2.physiolgy of heart,cardiac cycle and ECG 3.blood coaguation 4.Resiration :mechanism and control of breathings	30	1.Chaked tallc method 2.grop Disseelury 3.Prolem solving
DECEMBER	UNIT-5 TH	1.Excretion:Physiology of excretion,osmoregulation 2.Physiology of muscle contraction 3.Physiology of nerve impulse,Synaptic transmission	20	1.Chaked tallc method 2.grop Disseelury 3.Prolem solving
JANUARY	UNIT-6 TH Unit 1	1.Structure and function of Endocrine galads 2.Hormone recpetar	30	1.Chaked tallc method 2.grop



	Unit 2	<p>3. Biosynthesis and secretion of thyroid, adrenal, ovarian and testicular hormones</p> <p>4. Endocrine disorder of pituitary, thyroid, adrenal and pancreas</p> <p>1. Reproductive cycle in vertebrates</p> <p>2. Menstruation, lactation and pregnancy</p> <p>3. Mechanism of parturition</p> <p>4. Hormone regulation of gametogenesis</p>		Disseelury 3. Problem solving
FEBRUARY	UNIT-7 TH UNIT 3.	<p>1. Evidence of organic evolution.</p> <p>2. Theories of organic evolution.</p> <p>3. Variation, Mutation, Isolation and natural selection.</p> <p>4. Evolution of Horse</p>	25	1. Chalk talk method 2. Group Disseelury 3. Problem solving
	Unit 4.	<p>1. Introduction to Ethology: Branches and concept of ethology.</p> <p>2. Patterns of Behaviour, Taxes, Reflexes, Drives and stereotyped behavior.</p> <p>3. Reproductive behavioural patterns.</p> <p>4. Drugs and behavior, Hormone and behavior</p>		
	Unit 5.	<p>1. Prawn culture</p> <p>2. Sericulture</p> <p>3. Apiculture</p> <p>4. Pisciculture</p> <p>5. Poultry keeping</p> <p>6. Elements of pest control: chemical and Biological control</p>		

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TEACHING PLAN

ACEDMIC YEAR-2018-19

COURSE TYPE- THEORY

NAME OF DEPARTMENT-ZOOLOGY

CLASS-B.SC-2ND

PAPER I / II

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JANUARY	UNIT-6 TH Unit 1 Unit 2	1. Structure and function of Endocrine glands 2. Hormone receptor 3. Biosynthesis and secretion of thyroid, adrenal, ovarian and testicular hormones 4. Endocrine disorder of pituitary, thyroid, adrenal and pancreas 1. Reproductive cycle in vertebrates 2. Menstruation, lactation and pregnancy 3. Mechanism of parturition 4. Hormone regulation of gametogenesis	30	1. Chalked talk method 2. group Dissection 3. Problem solving
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ACEDMIC YEAR-2020-21

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ACADEMIC YEAR-2019-20

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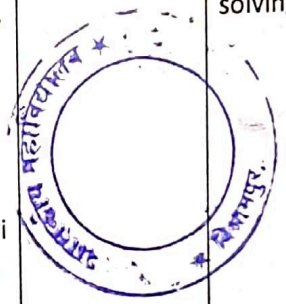
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TEACHING PLAN

ACADEMIC YEAR-2021-22

COURSE TYPE- THEORY

NAME OF DEPARTMENT-ZOOLOGY

CLASS-B.SC-3rd

PAPER I / II

NAME OF TEACHER -D.P.KORI

COURSE CODE/TITLE-ECOLOGY, ENVIRONMENTAL BIOLOGY: TOXICOLOGY

MICROBIOLOGY AND MEDICAL ZOOLOGY / GENETIC, CELL PHYSIOLOGY,

BIOTECHNOLOGY AND BIOTECHNIQUES

MOUNTH/WE EK	UNIT TITTLE	TOPIC OF LECTURE	NO.OF LECT.	METHODS
SEPTEMBER	UNIT-1 st	1.Aims and scopes of ecology 2. major ecosystemes of the world-Brief Introduction 3. population characteristics and regulation of densitles 4. communtles and ecosystem 5.Blo – geo chemical cycles 6. Air & water pollution 7. Ecological succession	10	1.Chaked tallc method 2.grop Disseelury 3.Prolem solving
OCTOBER	UNIT-2 nd UNIT-3 rd	1.Laws of limiting factor 2. Food chain and fresh water ecosystem 3. Energy flow In ecosystem – trophic levels 4. conervation of natural resources 5. environmental Impact assessment 1.Definition and classification of toxicants 2.Basic concept of toxlcology 3.principal of systematic toxicology 4.havy mattle toxicity(Arsenic, mercury, lead cadmlum) 5.animal polsans- snake venom, scorplon& be poisoning	30	1.Chaked tallc method 2.grop Disseelury 3.Prolem solving

NOVEMBER	UNIT-4 th UNIT-5 th	<p>1.General and applied, microbiology 2.microbiology of domestic water and sewage 3.Microbiology of milk & milk products 4.Industrial microbiology: fermentation process, production of penicillin, alcoholic beverages, bioleaching.</p> <p>1.Brief introduction to pathogenic microorganism Rickettsia, Spirochaetes, AIDS and Typhoid 2.Brief account of life history & pathogenicity of the following pathogens with reference to man: prophylaxis & treatment 3.Pathogenic protozoans- Entamoeba trypanosome & plasmodium 4.Pathogenic helminthes- Shistosoma 5.Nematode pathogenic parasites of man 6.Vector insects</p>	30	<p>1.Chaked tallc method 2.grop Disseelury 3.Prolem solving</p>
DECEMBER	UNIT-6 th	<p>1.Linkage & linkage maps, sex determination and sex linkage 2.Gene interaction –Incomplete dominance & codominance supplementary gene, complementary gene, Epistasis Lethal gene, Pleiotropic gene and multiple alleles. 3.Mutation :Gene and chromosomal mutation 4.Human genetics: chromosomal alteration : Down Edward ,Patau, Turner and klinefelter syndrome single gene disorders: Alkaptonuria , Phenylketonuria, sickle cell anemia, albinism and colour blindness</p>	20	<p>1.Chaked tallc method 2.grop Disseelury 3.Prolem solving</p>
JANUARY	UNIT-7 th	<p>1.General ideas about pH & buffer 2.transport across membrane: Diffusion and osmosis 3.Active transport in mitochondria & endoplasmic</p>	30	<p>1.Chaked tallc method 2.grop Disseelury 3.Prolem solving</p>

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Name of teacher

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TEACHING PLAN

ACEDMIC YEAR-2018-19

COURSE TYPE- THEORY

NAME OF DEPARTMENT-ZOOLOGY

PAPER I / II

CLASS-B.SC-3rd

NAME OF TEACHER -D.P.KORI

COURSE CODE/TITLE-ECOLOGY, ENVIRONMENTAL BIOLOGY: TOXICOLOGY

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APPLIED ZOOLOGY

MOUNTH/WE EK	UNIT TITTLE	TOPIC OF LECTURE	NO.OF LECT.	METHODS
SEPTEMBER	UNIT-1ST	1.Integument and its derivatives: structure of scales, hair and feather 2.alimentaey canal and digestive glands in vertebrates 3.respiratory organs:gills and lung, air-sac in birds	10	1.Chaked tallc method 2.grop Disseelury 3.Prolem solving
OCTOBER	UNIT-2 ND UNIT-3 RD	1.Endoskeleton :(a)Axial Skeleton –skull and vertebrae ,(b)Appendicular Skeleton Limbs and girdles 2.Circulatory Syestam:Evolution of heart and aortic arches 3.Urinogenital Syestam :Kindey and excretory ducts	20	1.Chaked tallc method 2.grop Disseelury 3.Prolem solving
NOVEMBER	UNIT-4 TH	1.Digestion and absorption of ditetary compnnents 2.physiolgy of heart, cardiac cycle and ECG 3.blood coaguiation 4.Resiration :mechanism and control of breathings	30	1.Chaked tallc method 2.grop Disseelury 3.Prolem solving
DECEMBER	UNIT-5 TH	1.Excretion:Physiology of excretion,osmoregulation 2.Physiology of muscle contraction 3.Physiology of nerve impulse,Synaptic transmission	20	1.Chaked tallc method 2.grop Disseelury 3.Prolem solving

JANUARY	UNIT-6 TH Unit 1 Unit 2	1. Structure and function of Endocrine glands 2. Hormone receptors 3. Biosynthesis and secretion of thyroid, adrenal, ovarian and testicular hormones 4. Endocrine disorders of pituitary, thyroid, adrenal and pancreas 1. Reproductive cycle in vertebrates 2. Menstruation, lactation and pregnancy 3. Mechanism of parturition 4. Hormone regulation of gametogenesis	30	1. Chalked talk method 2. group Discussion 3. Problem solving
FEBRUARY	UNIT-7 TH UNIT 3. Unit 4. Unit 5.	1. Evidence of organic evolution. 2. Theories of organic evolution. 3. Variation, Mutation Isolation and natural selection. 4. Evolution of Horse 1. Introduction to Ethology: Branches and concept of ethology. 2. Patterns of Behaviour, Taxes, Reflexes, Drives and stereotyped behavior. 3. Reproductive behavioural patterns. 4. drugs and behavior, Hormone and behavior 1. Prawn culture 2. Sericulture 3. Apiculture 4. Pisciculture 5. Poultry keeping 6. Elements of pest control: chemical and Biological control	25	1. Chalked talk method 2. group Discussion 3. Problem solving

D.P. Kori
NAME OF TEACHER

D. N. N.
NAME OF HOD


PRINCIPAL
Principal
College Bishrampur
Distt.-Surajpur(C.G.)

Teaching Plan

Academic Year: 2017-18

Name of Department: ZOOLOGY

Name of Teacher: D.P. KORI

Class: B.SC. PART- I

Subject: ZOOLOGY Paper I

Course Type: Theory

Course Code / Title: Cell Biology and Non-chordata

Month/Week	Unit/Title	Topic of Lecture	No. of lectures	Methods/Mode of Delivery
SEPTEMBER	Unit I	1. The cell (Prokaryotic and Eukaryotic) 2. Organization of Cell: Extra-nuclear and nuclear. Plasma membrane, Mitochondria, Endoplasmic reticulum, Golgi body, Ribosome and Lysosome). 3. Nucleus, Chromosomes, DNA and RNA	10	1. Chalk and talk method 2. Group discussion 3. Problem Solving
OCTOBER	Unit II	1. Cell division (Mitosis and Meiosis). 2. An elementary idea of Cancer cells And Cell transformation. 3. An elementary idea of Immunity: Innate & Acquired Immunity. Lymphoid organs, Cells of Immune System, Antigen, antibody and their interactions	13	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
NOVEMBER	Unit III	General characters and classification of Phylum Protozoa, Porifera, and Coelenterata up to order. 1. Protozoa: Type study - Paramecium. 2. Porifera: Type study - Sycon.	10	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
DECEMBER	Unit III & IV	3. Coelenterata: Type study - Obelia. 1. General characters and classification of Phylum Platyhelminthes, Nematelminthes, Annelida and Arthropoda up to order. 2. Arthropoda: Type Study - Palaemone.	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving

JANUARY	Unit IV & V	1. Platyhelminthes and Nematelminthes; Type Study - Fasciola, Ascaris 2. Annelida: Type Study - Pheretima. 1. General characters and classification of Phylum Mollusca and Echinodermata up to order.	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
FEBRUARY	Unit V	2. Mollusca: Type Study - Pila. 3. Echinodermata- Type Study- Asterias (Starfish).	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving



D. P. K. Srinivas
Signature of Teacher

D. P. K. Srinivas
(D. P. K. Srinivas)
Signature of Head

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Signature of Principal
Principal
Govt. C. M. S. School

Teaching Plan

Academic Year: 2017-18

Name of Department: ZOOLOGY

Class: B.Sc. PART-I, Course Type: Practical

Month/Week	Laboratory Work	Methods/Mode of Delivery
SEPTEMBER	List of museum specimens invertebrates- Amphioxus, Ascaris (Male/Female), Asterias (Starfish), Centipede, Cockroach, Crab, Earthworm, Euspongia, Honey Bee, Hydra, Liver fluke, Millipede, Sycon, Water beetle (<i>Hydrophilus piceus</i>), Petromyzon, Myxine, Nereis, Octopus, Oyster, Palaemon, Pennatula Pila, Planaria, Salpa, Sea Anemone, Sea Urchin, Sepia, Spongilla, Tapeworm, Unio.	Demonstration, video mode and self-practice
OCTOBER	Life cycle of Mosquito Life Cycle of Drosophila Life Cycle of Honey Bee	Demonstration, video mode and self-practice
NOVEMBER	1. List of museum specimens vertebrates- Anabas, Bat, Bufo, Calotes, Frog (<i>Rana tigrina</i>), Hippocampus, Hyla, Magur (<i>Clarius batrachus</i>), Rohu (<i>Labeo rohita</i>), Scoliodon, Torpedo (Electric ray), Warbler (Bird), Molley, Betta fish, Garra gatyla (Hillstream fish)	Demonstration, video mode and self-practice
DECEMBER	Dissection (Major and minor-Virtual): 1. Whole anatomy of Earthworm Digestive system of Earthworm 2. Nervous system of Earthworm 3. Mouth parts of male & female Mosquito 4. Radula of Pila	Demonstration, video mode and self-practice

JANUARY	5. Adaptation: - I. Adoptive characters of aquatic animal whale (Dolphin/ Duck) II. Adoptive characters of terrestrial animal (Horse, Man, etc.) III. Adoptive characters of aerial animal (Birds) IV. Adoptive characters of Desert animal (Camal/desert rat).	Demonstration, video mode and self-practice
FEBRUARY	6. Permanent Slides: - I. Mitosis stages. II. Meiosis stages. III. Chick Embryo development stages- 12 24 hours, 48 hours, 96 hours. Evaluation of the practical records and projects	Demonstration, video mode and self-practice

D. P. Kori
Signature of Teacher

D. P. Kori
D. P. Kori
Signature of Head

Y. P. S.
Signature of Principal
Govt. College
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Teaching Plan

Academic Year: 2018-19

Name of Department: ZOOLOGY

Name of Teacher: D.P. KORI

Class: B.SC. PART- I

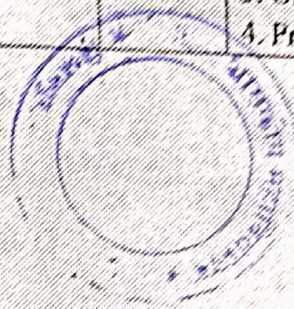
Subject: ZOOLOGY Paper I

Course Type: Theory

Course Code / Title: Cell Biology and Non-chordata

Month/Week	Unit/ Title	Topic of Lecture	No. of lectures	Methods/Mode of Delivery
SEPTEMBER	Unit I	1. The cell (Prokaryotic and Eukaryotic) 2. Organization of Cell: Extra-nuclear and nuclear, Plasma membrane, Mitochondria, Endoplasmic reticulum, Golgi body, Ribosome and Lysosome). 3. Nucleus, Chromosomes, DNA and RNA	10	1. Chalk and talk method 2. Group discussion 3. Problem Solving
OCTOBER	Unit II	1. Cell division (Mitosis and Meiosis). 2. An elementary idea of Cancer cells And Cell transformation. 3. An elementary idea of Immunity: Innate & Acquired Immunity, Lymphoid organs, Cells of Immune System, Antigen, antibody and their interactions	13	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
NOVEMBER	Unit III	General characters and classification of Phylum Protozoa, Porifera, and Coelenterata up to order. 1. Protozoa: Type study - Paramecium, 2. Porifera: Type study - Sycon.	10	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
DECEMBER	Unit III & IV	3. Coelenterata: Type study - Obelia 1. General characters and classification of Phylum Platyhelminthes, Nematelminthes, Annelida and Arthropoda up to order. 2. Arthropoda: Type Study - Palaemone.	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving

JANUARY	Unit IV & V	1. Platyhelminthes and Nemathelminthes: Type Study - Fasciola, Ascaris 2. Annelida: Type Study - Pheretima. 1. General characters and classification of Phylum Mollusca and Echinodermata up to order.	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
FEBRUARY	Unit V	2. Mollusca: Type Study - Pila. 3. Echinodermata- Type Study- Asterias (Starfish).	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving



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Distt. ...

Teaching Plan

Academic Year: 2018-19

Name of Department: ZOOLOGY

Class: B.Sc. PART-I, Course Type: Practical

Month/Week	Laboratory Work	Methods/Mode of Delivery
SEPTEMBER	List of museum specimens inveterbrates- Amphioxus, Ascaris (Male/Female), Asterias (Starfish), Centipede, Cockroach, Crab, Earthworm, Euspongia, Honey Bee, Hydra, Liver fluke, Millipede, Sycon, Water beetle (<i>Hydrophilus piceus</i>), Petromyzon, Myxine, Nereis, Octopus, Oyster, Palaemon, Pennatula Pila, Planaria, Salpa, Sea Anemone, Sea Urchin, Sepia, Spongilla, Tapeworm, Unio.	Demonstration, video mode and self-practice
OCTOBER	Life cycle of Mosquito Life Cycle of Drosophila Life Cycle of Honey Bee	Demonstration, video mode and self-practice
NOVEMBER	1. List of museum specimens vertebrates- Anabas, Bat, Bufo, Calotes, Frog (<i>Rana tigrina</i>), Hippocampus, Hyla, Magur (<i>Clarius batrachus</i>), Rohu (<i>Labeo rohita</i>), Scoliodon, Torpedo (Electric ray), Warbler (Bird), Molley, Betta fish, Garra gatyla (Hillstream fish)	Demonstration, video mode and self-practice
DECEMBER	Dissection (Major and minor-Virtual): 1. Whole anatomy of Earthworm Digestive system of Earthworm 2. Nervous system of Earthworm 3. Mouth parts of male & female Mosquito 4. Radula of Pila	Demonstration, video mode and self-practice

JANUARY

5. Adaptation: -

- I. Adaptive characters of aquatic animal
whale (Dolphin/ Duck)
- II. Adaptive characters of terrestrial
animal (Horse, Man, etc.)
- III. Adaptive characters of aerial animal
(Birds)
- IV. Adaptive characters of Desert animal
(Camal/desert rat).

Demonstration, video mode
and self-practice

FEBRUARY

6. Permanent Slides: -

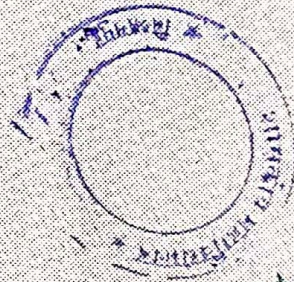
- I. Mitosis stages.
 - II. Meiosis stages.
 - III. Chick Embryo development stages- 12
24 hours, 48 hours, 96 hours.
- Evaluation of the practical records and projects

Demonstration, video mode
and self-practice

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A. Phenu
Signature of Head

Y.P.S.
Signature of Principal



Teaching Plan

Academic Year: 2019-20

Name of Department: ZOOLOGY

Name of Teacher: D.P. KORI

Class: B.SC. PART-I

Subject: ZOOLOGY Paper I

Course Type: Theory

Course Code / Title: Cell Biology and Non-chordata

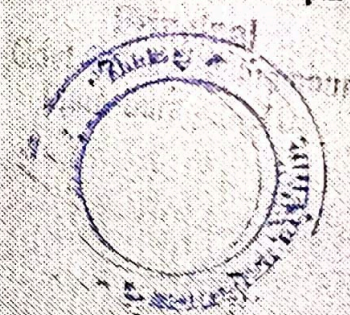
Month/Week	Unit/ Title	Topic of Lecture	No. of lectures	Methods/Mode of Delivery
SEPTEMBER	Unit I	1. The cell (Prokaryotic and Eukaryotic) 2. Organization of Cell: Extra-nuclear and nuclear, Plasma membrane, Mitochondria, Endoplasmic reticulum, Golgi body, Ribosome and Lysosome). 3. Nucleus, Chromosomes, DNA and RNA	10	1. Chalk and talk method 2. Group discussion 3. Problem Solving
OCTOBER	Unit II	1. Cell division (Mitosis and Meiosis). 2. An elementary idea of Cancer cells And Cell transformation. 3. An elementary idea of Immunity: Innate & Acquired Immunity. Lymphoid organs, Cells of Immune System, Antigen, antibody and their interactions	13	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
NOVEMBER	Unit III	General characters and classification of Phylum Protozoa, Porifera, and Coelenterata up to order. 1. Protozoa: Type study - Paramecium, 2. Porifera: Type study - Sycon.	10	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
DECEMBER	Unit III & IV	3. Coelenterata: Type study - Obelia 1. General characters and classification of Phylum Platyhelminthes, Nematelminthes, Annelida and Arthropoda up to order. 2. Arthropoda: Type Study - Palaemone.	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving

JANUARY	Unit IV & V	1. Platyhelminthes and Nematelminthes: Type Study – Fasciola, Ascaris 2. Annelida: Type Study – Pheretima. 1. General characters and classification of Phylum Mollusca and Echinodermata up to order.	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
FEBRUARY	Unit V	2. Mollusca: Type Study - Pila. 3. Echinodermata- Type Study- Asterias (Starfish).	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving

J. Now
Signature of Teacher

J. Now
(D. P. Kori)
Signature of Head

Y. P. K.
Signature of Principal



Teaching Plan

Academic Year: 2019-20

Name of Department: ZOOLOGY

Class: B.Sc. PART-I, Course Type: Practical

Month/Week	Laboratory Work	Methods/Mode of Delivery
SEPTEMBER	List of museum specimens inveterbrates- Amphioxus, Ascaris (Male/Female), Asterias (Starfish), Centipede, Cockroach, Crab, Earthworm, Euspongia, Honey Bee, Hydra, Liver fluke, Millipede, Sycon, Water beetle (<i>Hydrophilus piceus</i>), Petromyzon, Myxine, Nereis, Octopus, Oyster, Palaemon, Pennatula Pila, Planaria, Salpa, Sea Anemone, Sea Urchin, Sepia, Spongilla, Tapeworm, Unio.	Demonstration, video mode and self-practice
OCTOBER	Life cycle of Mosquito Life Cycle of Drosophila Life Cycle of Honey Bee	Demonstration, video mode and self-practice
NOVEMBER	1. List of museum specimens vertebrates- Anabas, Bat, Bufo, Calotes, Frog (<i>Rana tigrina</i>), Hippocampus, Hyla, Magur (<i>Clarius batrachus</i>), Rohu (<i>Labeo rohita</i>), Scoliodon, Torpedo (Electric ray), Warbler (Bird), Molley, Betta fish, Garra gatyla (Hillstream fish)	Demonstration, video mode and self-practice
DECEMBER	Dissection (Major and minor-Virtual): 1. Whole anatomy of Earthworm Digestive system of Earthworm 2. Nervous system of Earthworm 3. Mouth parts of male & female Mosquito 4. Radula of Pila	Demonstration, video mode and self-practice

JANUARY

5. Adaptation: -

- I. Adaptive characters of aquatic animal
whale (Dolphin/ Duck)
- II. Adaptive characters of terrestrial
animal (Horse, Man, etc.)
- III. Adaptive characters of aerial animal
(Hobby)
- IV. Adaptive characters of Desert animal
(Camel/ Desert rat).

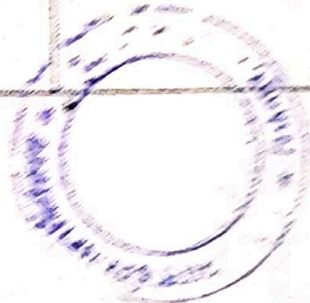
Demonstration, class notes
and self-practice

FEBRUARY

6. Permanent Slides: -

- I. Metamorphosis stages.
 - II. Meiosis stages.
 - III. Chick Embryo development stages- 12
24 hours, 48 hours, 96 hours.
- Evaluation of the practical records and projects

Demonstration, class notes
and self-practice



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Teaching Plan

Academic Year: 2020-21

Name of Department: ZOOLOGY

Name of Teacher: D.P. KORI

Class: B.SC. PART- I

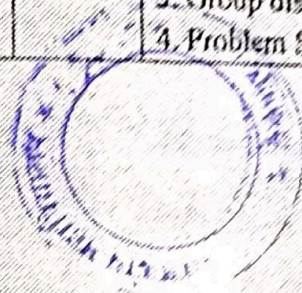
Subject: ZOOLOGY Paper I

Course Type: Theory

Course Code / Title: Cell Biology and Non-chordata

Month/Week	Unit/ Title	Topic of Lecture	No. of lectures	Methods/Mode of Delivery
SEPTEMBER	Unit I	1. The cell (Prokaryotic and Eukaryotic) 2. Organization of Cell: Extra-nuclear and nuclear, Plasma membrane, Mitochondria, Endoplasmic reticulum, Golgi body, Ribosome and Lysosome). 3. Nucleus, Chromosomes, DNA and RNA	10	1. Chalk and talk method 2. Group discussion 3. Problem Solving
OCTOBER	Unit II	1. Cell division (Mitosis and Meiosis). 2. An elementary idea of Cancer cells And Cell transformation. 3. An elementary idea of Immunity: Innate & Acquired Immunity, Lymphoid organs, Cells of Immune System, Antigen, antibody and their interactions	13	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
NOVEMBER	Unit III	General characters and classification of Phylum Protozoa, Porifera, and Coelenterata up to order. 1. Protozoa: Type study - Paramecium, 2. Porifera: Type study - Sycon.	10	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
DECEMBER	Unit III & IV	3. Coelenterata: Type study - Obelia 1. General characters and classification of Phylum Platyhelminthes, Nematelminthes, Annelida and Arthropoda up to order. 2. Arthropoda: Type Study - Palaemon.	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving

JANUARY	Unit IV & V	1. Platyhelminthes and Nemathelminthes: Type Study - Fasciola, Ascaris 2. Annelida: Type Study - Pheretima. 1. General characters and classification of Phylum Mollusca and Echinodermata up to order.	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
FEBRUARY	Unit V	2. Mollusca: Type Study - Pila. 3. Echinodermata- Type Study- Asterias (Starfish).	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving



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Date: ...

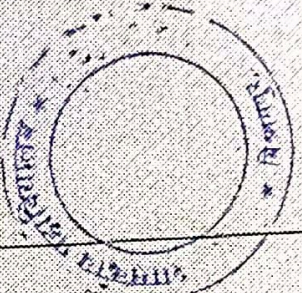
Teaching Plan

Academic Year: 2020-21

Name of Department: ZOOLOGY

Class: B.Sc. PART-I, Course Type: Practical

Month/Week	Laboratory Work	Methods/Mode of Delivery
SEPTEMBER	List of museum specimens invertebrates- Amphioxus, Ascaris (Male/Female), Asterias (Starfish), Centipede, Cockroach, Crab, Earthworm, Euspongia, Honey Bee, Hydra, Liver fluke, Millipede, Sycon, Water beetle (<i>Hydrophilus piceus</i>), Petromyzon, Myxine, Nereis, Octopus, Oyster, Palaemon, Pennatula Pila, Planaria, Salpa, Sea Anemone, Sea Urchin, Sepia, Spongilla, Tapeworm, Unio.	Demonstration, video mode and self-practice
OCTOBER	Life cycle of Mosquito Life Cycle of Drosophila Life Cycle of Honey Bee	Demonstration, video mode and self-practice
NOVEMBER	1. List of museum specimens vertebrates- Anabas, Bat, Bufo, Calotes, Frog (<i>Rana tigrina</i>), Hippocampus, Hyla, Magur (<i>Clarius batrachus</i>), Rohu (<i>Labeo rohita</i>), Scollodon, Torpedo (Electric ray), Warbler (Bird), Molley, Betta fish, Garra gatyla (Hillstream fish)	Demonstration, video mode and self-practice
DECEMBER	Dissection (Major and minor-Virtual): 1. Whole anatomy of Earthworm Digestive system of Earthworm 2. Nervous system of Earthworm 3. Mouth parts of male & female Mosquito 4. Radula of Pila	Demonstration, video mode and self-practice

JANUARY	<p>5. Adaptation: -</p> <ol style="list-style-type: none"> I. Adoptive characters of aquatic animal whale (Dolphin/ Duck) II. Adoptive characters of terrestrial animal (Horse, Man, etc.) III. Adoptive characters of aerial animal (Birds) IV. Adoptive characters of Desert animal (Camal/desert rat). 	<p>Demonstration, video mode and self-practice</p>
FEBRUARY	<p>6. Permanent Slides: -</p> <ol style="list-style-type: none"> I. Mitosis stages. II. Meiosis stages. III. Chick Embryo development stages- 12 24 hours, 48 hours, 96 hours. <p>Evaluation of the practical records and projects</p>	<p>Demonstration, video mode and self-practice</p> 

Signature of Teacher

J. Now
(S.P.K.O.H.)
Signature of Head

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Teaching Plan

Academic Year: 2021-22

Name of Department: ZOOLOGY

Name of Teacher: D.P. KORI

Class: B.SC. PART- I

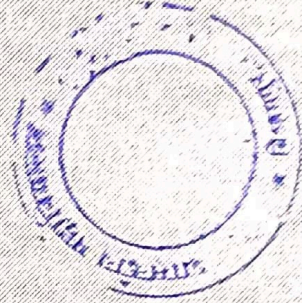
Subject: ZOOLOGY Paper I

Course Type: Theory

Course Code / Title: Cell Biology and Non-chordata

Month/Week	Unit/ Title	Topic of Lecture	No. of lectures	Methods/Mode of Delivery
SEPTEMBER	Unit I	1. The cell (Prokaryotic and Eukaryotic) 2. Organization of Cell: Extra-nuclear and nuclear, Plasma membrane, Mitochondria, Endoplasmic reticulum, Golgi body, Ribosome and Lysosome). 3. Nucleus, Chromosomes, DNA and RNA	10	1. Chalk and talk method 2. Group discussion 3. Problem Solving
OCTOBER	Unit II	1. Cell division (Mitosis and Meiosis). 2. An elementary idea of Cancer cells And Cell transformation. 3. An elementary idea of Immunity: Innate & Acquired Immunity, Lymphoid organs, Cells of Immune System, Antigen, antibody, and their interactions	13	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
NOVEMBER	Unit III	General characters and classification of Phylum Protozoa, Porifera, and Coelenterata up to order. 1. Protozoa: Type study - Paramecium, 2. Porifera: Type study - Sycon	10	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
DECEMBER	Unit III & IV	3. Coelenterata: Type study - Obelia 1. General characters and classification of Phylum Platyhelminthes, Nematelminthes, Annelida and Arthropoda up to order. 2. Arthropoda: Type Study - Palaemone.	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving

JANUARY	Unit IV & V	1. Platyhelminthes and Nematelminthes; Type Study - Fasciola, Ascaris 2. Annelida: Type Study - Pheretima. 1.General characters and classification of Phylum Mollusca and Echinodermata up to order.	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving
FEBRUARY	Unit V	2. Mollusca: Type Study - Pila. 3. Echinodermata- Type Study- Asterias (Starfish).	12	1. Chalk and talk method 2. Flip the class 3. Group discussion 4. Problem Solving



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Govt. C. S. School

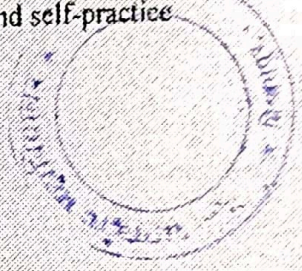
Teaching Plan

Academic Year: 2021-22

Name of Department: ZOOLOGY

Class: B.Sc. PART-I, Course Type: Practical

Month/Week	Laboratory Work	Methods/Mode of Delivery
SEPTEMBER	List of museum specimens invertebrates- Amphioxus, Ascaris (Male/Female), Asterias (Starfish), Centipede, Cockroach, Crab, Earthworm, Euspongia, Honey Bee, Hydra, Liver fluke, Millipede, Sycon, Water beetle (<i>Hydrophilus piceus</i>), Petromyzon, Myxine, Nereis, Octopus, Oyster, Palaemon, Pennatulida Pila, Planaria, Salpa, Sea Anemone, Sea Urchin, Sepia, Spongilla, Tapeworm, Unio.	Demonstration, video mode and self-practice
OCTOBER	Life cycle of Mosquito Life Cycle of Drosophila Life Cycle of Honey Bee	Demonstration, video mode and self-practice
NOVEMBER	1. List of museum specimens vertebrates- Anabas, Bat, Bufo, Calotes, Frog (<i>Rana tigrina</i>), Hippocampus, Hyla, Magur (<i>Clarius batrachus</i>), Rohu (<i>Labeo rohita</i>), Scollodon, Torpedo (Electric ray), Warbler (Bird), Molley, Betta fish, Garra gatula (Hillstream fish)	Demonstration, video mode and self-practice
DECEMBER	Dissection (Major and minor-Virtual): 1. Whole anatomy of Earthworm Digestive system of Earthworm 2. Nervous system of Earthworm 3. Mouth parts of male & female Mosquito 4. Radula of Pila	Demonstration, video mode and self-practice

JANUARY	<p>5. Adaptation: -</p> <ul style="list-style-type: none"> I. Adoptive characters of aquatic animal whale (Dolphin/ Duck) II. Adoptive characters of terrestrial animal (Horse, Man, etc.) III. Adoptive characters of aerial animal (Birds) IV. Adoptive characters of Desert animal (Camal/desert rat). 	<p>Demonstration, video mode and self-practice</p>
FEBRUARY	<p>6. Permanent Slides: -</p> <ul style="list-style-type: none"> I. Mitosis stages. II. Meiosis stages. III. Chick Embryo development stages- 12 24 hours, 48 hours, 96 hours. <p>Evaluation of the practical records and projects</p>	<p>Demonstration, video mode and self-practice</p> 

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