Semester	Programme	Course & Name of	Plan: Department of Zoology Topic	Teacher	No. of Hours
		the paper			
	HONS.	CC1-1-TH	Unit 1: Basics of Animal Classification	РМ	04
		Non-	Unit 2: Protista and Metazoa	PM, DD,	15
		Chordata - I		SC	
			Unit 3: Porifera	PM	06
			Unit 4: Cnidaria	SS	10
			Unit 5: Ctenophora	SS	02
			Unit 6: Platyhelminthes	DD	06
			Unit 7: Nematoda	SC	07
		CC-1-1-P	Study of whole mount of Euglena,	РМ	60 Hrs
		Non-	Amoeba and Paramoecium		
		Chordates - I	Identification with reason &	PM, DD	
			Systematic position of Amoeba,		
			Euglena, Entamoeba, Paramecium,		
			Plasmodium, Balantidium, Vorticella		
			(from the prepared slides)		
			Identification with reason &	SS, DD	
			Systematic position of Sycon, Poterion		
			(Neptune's Cup), Obelia, Physalia,		
			Aurelia, Gorgonia, Metridium,		
			Pennatula, Madrepora, Fasciola		
			hepatica, Taenia solium and Ascaris		
			lumbricoides.		
			Staining/mounting of any	DD	
			protozoa/helminth from gut of		
			Periplaneta sp.		
		CC1-2-TH	Unit 1: Nucleic Acids	SK	03
		Molecular	Unit 2: DNA Replication	SK	09
		Biology	Unit 3: Transcription	SK	09
			Unit 4: Translation	SK	09
			Unit 5: Post Transcriptional	SK	08
			Modifications and Processing of		
			Eukaryotic RNA		
			Unit 6: Gene Regulation	SK	07
			Unit 7: DNA Repair Mechanism	SC	02
			Unit 8: Molecular Techniques	SC	03
		СС-1-2-Р	Demonstration of polytene and	PM	60 Hrs
		Molecular	lampbrush chromosome from		
		Biology	photograph		
			Isolation and quantification of	SK	
			genomic DNA from goat liver.		
			Agarose gel electrophoresis for DNA.	SK	
			Histological staining of DNA and RNA	SK	
			in prepared slides		
	GENERAL	CC1-1-TH	Unit 1: Kingdom Protista	SS	02
		Animal	Unit 2: Phylum Porifera	РМ	02
		Diversity	Unit 3: Phylum Cnidaria	SS	02

			Unit 4: Phylum Platyhelminthes	DD	02
			Unit 5: Phylum Nemathelminthes	DD	02
			Unit 6: Phylum Annelida	DD	02
			Unit 7: Phylum Arthropoda	PM	04
			Unit 8: Phylum Mollusca	SS	04
			Unit 9: Phylum Echinodermata	DD	02
			Unit 10: Protochordates	SC	04
			Unit 11: Agnatha	SC	02
			Unit 12: Pisces	SS	02
			Unit 13: Amphibia	SC	04
				PM	04
			Unit 14: Reptiles Unit 15: Aves	SC	
			Unit 16: Mammals	SC SC	04
					04
		CC1-1-P	Identification with reasons of the	PM & SC	60 Hrs
		Animal	following specimens: Amoeba,		
		Diversity	Euglena, Paramecium, Sycon, Obelia, Aurelia, Metridium, Taenia solium,		
			Aurena, Methalum, Tuena Solum, Ascaris lumbricoides (Male and		
			female), Aphrodite, Nereis,		
			Hirudinaria, Palaemon, Cancer,		
			Limulus, Apis, Chiton, Dentalium, Unio,		
			Sepia, Octopus, Echinus, Cucumaria		
			and Antedon, Balanoglossus,		
			Branchiostoma, Petromyzon, Torpedo,		
			Labeo rohita, Exocoetus, Salamandra,		
			Hyla, Chelone, Hemidactylus,		
			Chamaeleon, Draco, Vipera, Naja, Bat,		
			Funambulus		
			Key for Identification of poisonous	РМ	
			and non-poisonous snakes		
			Study of anatomy of digestive system,	PM & SC	
			salivary gland, mouth parts of		
			Periplaneta, Study of reproductive		
			system of female cockroach		
			An "animal album" containing	PM & SC	
			photographs, cut outs, with		
			appropriate write up about the above		
			mentioned taxa. Different taxa/ topics		
			may be given to different sets of		
			students for this purpose		
2	HONS.	CC2-3-TH	Unit 1: Introduction	PM	02
		Non-	Unit 2: Annelida	DD	10
		Chordates -	Unit 3: Arthropoda	PM	16
		П	Unit 4: Onychophora	DD	02
			Unit 5: Mollusca	SS	10
			Unit 6: Echinodermata	DD	08
			Unit 7: Hemichordata	SS	02
		CC-2-3-P	Study of following specimens:	PM, SS	60
		Non-	a. Annelids - Aphrodite, Nereis,		
		Chordates -	Chaetopterus, Earthworm, Hirudinaria		
		П			

		b. Arthropods - Limulus, Palaemon, Balanus, Eupagurus, Scolopendra, Peripatus, Silkworm – life history stages, Termite – members of a colony and Honey bee – members of the colony		
		c. Molluscs - Dentalium, Patella, Chiton, Pila, Achatina, Pinctada, Sepia, Octopus, Nautilus		
		d. Echinoderms - Asterias, Ophiura, Clypeaster, Echinus, Cucumaria and Antedon	20	
		Anatomy study: Nervours system, Reproductive system (Male & female), Mouth parts & Salivary apparatus in Periplaneta sp	DD	
	CC2-4-TH	Unit 1: Plasma Membrane	SC	07
	Cell Biology	Unit 2: Cytoplasmic Organelles I	SC	05
		Unit 3: Cytoplasmic Organelles II	SK	07
		Unit 4: Cytoskeleton Unit 5: Nucleus	SK SK	05 08
		Unit 6: Cell Cycle	SK	10
		Unit 7: Cell Signalling	DD	08
	CC-2-4-P	Preparation of temporary stained	SK	60 Hrs
	Cell Biology	squash of onion/arum root tip to	JK	00 1113
		study various stages of mitosis		
		Study of various stages of meiosis	SK	
		from grasshopper testis		
		Preparation of permanent slide to	SK	
		show the presence of Barr body in		
		human female blood cells/cheek cells.		
		Preparation of permanent slide to	SK	
		demonstrate:		
		a. DNA by Feulgen reaction		
		b. Cell viability study by Trypan Blue		
		staining		
GENERAL	CC2-2-TH	Unit 1: Integumentary System	SC	04
	Comparative Anatomy &	Unit 2: Digestive System	SC	04
	Development	Unit 3: Respiratory System	SC SC	06
	al Biology	Unit 4: Circulatory System	SC	06
		Unit 5: Urino-genital System	SC	06
		Unit 6: Early Embryonic Development	PM PM	14
		Unit 7: Late Embryonic Development		10
	CC2-2-P Comparative	Osteology: Limb bones, girdle and vertebra of Pigeon & Guineapig,	PM & SC	60
	Anatomy &	Mammalian skulls: One herbivorous;		
	Development	Guinea pig and one carnivorous; Dog.		
	al Biology	Larval stages: Veliger, Nauplius,	SC	
		Trochophore, Mysis.		

			Study of the different types of placenta-histological sections through photomicrographs.	РМ	
			Developmental stages of chick embryo: 24 Hrs., 48 Hrs, 72 Hrs., 96 Hrs.	PM	
3	HONS	CC3-5-TH	Unit 1: Introduction to Chordates	РМ	02
		Chordata	Unit 2: Protochordata	SS	07
			Unit 3: Agnatha	SS	02
			Unit 4: Pisces	SS	07
			Unit 5: Amphibia	РМ	07
			Unit 6: Reptilia	PM	08
			Unit 7: Aves	PM	08
			Unit 8: Mammals	SK	09
		CC-3-5-P	Identification with Reasons	PM, SS	60 Hrs
		Chordata	 a) Protochordata: Balanoglossus, Branchiostoma b) Agnatha: Petromyzon c) Fishes: Scoliodon, Sphyrna, Pristis, Torpedo, Mystus, Heteropneustes, Labeo rohita, Exocoetus, Hippocampus, Anabas, Flat fish d) Amphibia: Necturus, Bufo (Duttaphrynus) melanostictus, Rana (Hoplobatrachus) tigerinus, Hyla, Tylototriton, Axolotl larva e) Reptilia: Chelone, Trionyx, Hemidactylus, Varanus, Calotes, Chamaeleon, Draco, Vipera, Naja, Hydrophis, f) Mammalia: Bat (Insectivorous and Frugivorous), Funambulus (Indian Palm squirrel) 2. Dissection of brain and pituitary – ex situ, digestive and Urino-genital system of Tilapia 	SK	
			3. Pecten from Fowl head	РМ	
			4. Power point presentation on study of habit, habitat or behaviour of any one animal by student – for internal assessment only	PM, SS, DD, SC, SK	
		CC3-6-TH	Unit 1: Tissues	PM	04
		Animal	Unit 2: Bone and Cartilage	SS	04
		Physiology	Unit 3: Nervous System	SS	10
			Unit 4: Muscular System	SK	10
			Unit 5: Reproductive System	DD	06
			Unit 6: Endocrine System	DD	16
		CC3-6-P Animal	1. Recording of cardiac and simple muscle twitch with electrical	SK	60 Hrs
		Physiology	stimulation		

		2. Preparation of temporary mounts: Squamous epithelium, Striated muscle fibres and nerve cells	SK	
		3. Study of permanent slides of Mammalian Skin, Spinal cord, Pancreas, Testis, Ovary, Adrenal, Lung, pyloric stomach, cardiac stomach, Thyroid, small intestine and large	DD	_
		intestine of mammal (white rat) 4. Microtomy: Preparation of permanent slide of any five manual line (Cont/white ant) timeses	DD	
	ССЗ-7-ТН	mammalian (Goat/white rat) tissues	SC	08
	Fundamental	Unit 1: Carbohydrates Unit 2: Lipids	SC	08
	s of	Unit 3: Proteins	SC	10
	Biochemistry	Unit 4: Nucleic Acids	SK	10
	,			10
		Unit 5: Enzymes	DD	
	СС-3-7-Р	Unit 6: Oxidative Phosphorylation	SC	02
	Fundamental	1. Qualitative tests for carbohydrates, proteins and lipids	SC	60 Hrs
	s of Biochemistry	2. Qualitative estimation of Urea & Uric acid	SC	
		3. Paper chromatography of amino acids.	SK	
		4. Quantitative estimation of water soluble proteins following Lowry Method	DD	
	SEC(A)-3-2-	Unit 1: Introduction	SS	06
	тн	Unit 2: Biology of Silkworm	SC	04
	Sericulture	Unit 3: Rearing of Silkworm	РМ	10
		Unit 4: Pest and Diseases	DD	07
		Unit 5: Entrepreneurship in Sericulture	SK	03
GENERAL	CC3-3-TH	Unit 1: Nerve and Muscle	SC	08
	Physiology &	Unit 2: Digestion	SC	06
	Biochemistry	Unit 3: Respiration	SC	06
		Unit 4: Cardio-vascular system	SC	06
		Unit 5: Excretion	SC	06
		Unit 6: Reproduction and Endocrine Glands	SC	10
		Unit 7: Carbohydrate Metabolism	SC	02
		Unit 8: Lipid Metabolism	SC	02
		Unit 9: Protein Metabolism	SC	04
		Unit 10: Enzyme	SC	02
	CC3-3-P Physiology & Biochemistry	1. Study of permanent histological sections of mammalian pituitary, thyroid, pancreas, adrenal gland.	DD	60 Hrs
	,	2. Study of permanent histological sections of mammalian duodenum, liver, lung, kidney.	SS	

			3. Qualitative test for carbohydrate samples.	SS	
		SEC-A-3-1-	Unit 1: Biology of Bees	SC	02
		TH	Unit 2: Rearing of Bees	SS	14
		Apiculture	Unit 3: Diseases and Enemies		06
			Unit 4: Bee Economy	SC	02
			Unit 5: Entrepreneurship in Apiculture	SK	06
4	HONS	CC4-8-TH	Unit 1: Integumentary System	PM	10
-		Comparative	Unit 2: Digestive System	PM	06
		Anatomy of	Unit 3: Respiratory System	SS	06
		Vertebrates	Unit 4: Circulatory System	DD	07
			Unit 5: Urinogenital System	DD	05
			Unit 6: Nervous system and sense	SS	08
			-	33	00
			organs Unit 7: Skeletal System	PM&SS	08
		CC4-8-P	1. Study of placoid, cycloid and	SC	60 Hrs
		CC4-6-P Comparative	ctenoid scales through permanent	30	
		Anatomy of	slides/photographs		
		Vertebrates	2. Study of disarticulated skeleton of	РМ	-
			toad, Pigeon, Guineapig (limb bones,		
			vertebrae, limb and girdle)		
			3. Comparative study of heart and	SS	1
			brain, with the help of model/picture		
			4. Identification of skulls: Pigeon, one	PM	1
			herbivore (Guineapig) and one		
			carnivore (Dog) animal		
		CC4-9-TH	Unit 1: Physiology of Digestion	SC	10
		Animal	Unit 2: Physiology of Respiration	SC	10
		Physiology	Unit 3: Physiology of Circulation	SC	08
			Unit 4: Physiology of Heart	SC	08
			Unit 5: Thermoregulation and	PM	06
			Osmoregulation		
			Unit 6: Renal Physiology	PM	08
		CC4-9-P	1. Determination of ABO Blood group	DD	60 Hrs
		Animal	2. Estimation of haemoglobin using	SC	1
		Physiology	Sahli's haemoglobin meter		
			3. Identification of blood cells from	PM	
			human blood		
			4. Preparation of haemin crystals and	SK	
			haemochromogen crystals		_
			5. Identification of blood cells from		
			cockroach haemolymph		-
			6. Demonstration of blood pressure by	SC	
			digital meter	00	07
		CC4-10-TH	Unit 1: Overview of Immune System	DD	03
		Immunology	Unit 2: Innate and Adaptive Immunity	DD	09
			Unit 3: Antigen	DD	06
			Unit 4: Immunoglobulins	DD	10
			Unit 5: Major Histocompatibility Complex	DD	06
			Unit 6: Cytokines	DD	03
			onit o. cytokines		03

			Unit 7: Complement System	DD	05
			Unit 8: Hypersensitivity	DD	04
			Unit 9: Vaccines	DD	04
		CC4-10-P	1. Demonstration of lymphoid organs	DD	60 Hrs
		Immunology	(by picture).		001113
			2. Histological study of Bursa	DD	
			fabricius, spleen, thymus and lymph		
			nodes through slides/		
			Photographs		
			3. Demonstration of ELISA	DD	
		SEC(B)-4-1-	Unit 1: Introduction to Aquarium Fish	SS	02
		ТН	Keeping		
		Aquarium	Unit 2: Biology of Aquarium Fishes	SS	10
		Fishery	Unit 3: Food and Feeding of Aquarium	SS	08
			Fishes		
			Unit 4: Fish Transportation	SS	05
			Unit 5: Maintenance of Aquarium	SS	05
	GENERAL	CC4-4-TH	Unit 1: Mendelian Genetics and Its	SK	10
		Genetics &	Extension		
		Evolutionary	Unit 2: Linkage, Crossing Over	SK	08
		Biology	Unit 3: Mutation	SK	08
			Unit 4: Sex Determination	SK	08
			Unit 5: Origin of Life	SK	02
			Unit 6: Evolutionary Theories	SK	06
			Unit 7: Process of Evolutionary	SK	04
			Changes		
			Unit 8: Speciation	SK	04
		CC4-4-P	1. Verification of Mendelian Ratio	SK	60 Hrs
		Genetics &	using Chi square test.		
		Evolutionary	2. Identification of Human	SK	
		Biology	Aneuploidy using photograph of		
			karyotype.		
			3. Phylogeny of horse with diagram of	SK	
			limb and skull.		
			4. Study and identification of Darwin	SK	
			Finches from photographs.		
			5. Visit to natural history museum and	PM/SS/	
			submission of report.	DD/SC/S	
-				K	~ ~ ~
5	HONS	CC5-11-TH	Unit 1: Introduction to Ecology	SS	04
		Ecology	Unit 2: Population	SS	20
			Unit 3: Community	SS	11
			Unit 4: Ecosystem	SS	08
			Unit 5: Applied Zoology	SS	07
		CC5-11-P	1. Determination of population density	SS	60 Hrs
		Ecology	in a natural/hypothetical community		
			by quadrate method and		
			calculation of Shannon-Weiner		
			diversity index for the same		
			community		

	2. Study of an aquatic ecosystem:	SS	
	Phytoplankton and zooplankton,		
	Measurement of area, temperature,		
	salinity, determination of pH, and		
	Dissolved Oxygen content (Winkler's method), Chemical Oxygen		
	Demand and free CO ₂		
	3. Report on a visit to National	PM/SS/	
	Park/Biodiversity Park/Wildlife	DD/SC/S	
	sanctuary/ any place of ecological	K	
	interest/ ecological uniqueness/	, n	
	Zoological Garden		
CC5-12-TH	Unit 1: Mendelian Genetics and its	SK	12
Principles of	Extension		
Genetics	Unit 2: Linkage, Crossing Over and	SK	08
	Linkage Mapping		
	Unit 3: Mutations	SK	12
	Unit 4: Sex Determination	SK	08
	Unit 5: Extra-chromosomal	SK	02
	Inheritance		
	Unit 6: Genetic Fine Structure	SK	02
	Unit 7: Transposable Genetic	SK	06
	Elements		
CC5-12-P	1. Chi-square analyses for genetic ratio	SK	60 Hrs
Principles of	test		
Genetics	2. Identification of chromosomal	SK	
	aberration in Drosophila and man		
	from photograph		
	3. Pedigree analysis of some inherited	SK	
	traits in animals		
DSE(A)-5-1-	Unit 1: Introduction to Parasitology	DD	02
TH	Unit 2: Parasitic Protists	DD	12
Parasitology	Unit 3: Parasitic Platyhelminthes	DD	12
	Unit 4: Parasitic Nematodes	DD	12
	Unit 5: Parasitic Arthropods	DD	10
	Unit 6: Parasitic Vertebrates	DD	02
DSE(A)-5-1-	1. Study of life stages of Giardia	DD	60 Hrs
P	intestinalis, Trypanosoma gambiense,		
Parasitology	Leishmania donovani,		
57	Plasmodium vivax, Plasmodium		
	falciparum through permanent		
	slides/micro photographs		
	2. Study of adult and life stages of	DD	
	Schistosoma haematobium, Taenia		
	solium through permanent		
	slides/micro photographs		
	3. Study of adult and life stages of	DD	
	Ancylostoma duodenale through		
	permanent slides/micro photographs.		
	4. Study of monogenea from the gills of fresh/marine fish [Gills can be	DD	
	procured from fish market as by		
	product of the industry]		
	product of the moustry]		l

		5 Staday of the state of the st	DD	1
		5. Study of nematode/cestode parasites	DD	
		from the intestines of Poultry bird [Intestine can be procured from		
		poultry/market as a by-product] &		
		Goat.		
		6. Submission of a brief report on	DD	-
		parasitic vertebrates	00	
	DSE(B)-5-2-	Unit 1: Reproductive Endocrinology	РМ	10
	TH	Unit 2: Functional Anatomy of Male	PM	14
	Reproductiv	Reproduction	F IVI	14
	e Biology	Unit 3: Functional Anatomy of Female	РМ	18
	C Diology	Reproduction	FIVI	10
		Unit 4: Reproductive Health	РМ	08
		•		
	DSE(B)-5-2-	1. Study of animal house: set up and	PM	60 Hrs
	P	maintenance of animal house, breeding techniques, care of normal		
	Reproductiv	and experimental animals (only		
	e Biology	demonstration through chart).		
		2. Tissue fixation, embedding in	РМ	
		paraffin, microtomy and slide		
		preparation of any endocrine gland.		
		3. H-E staining of histological slides.	РМ	-
		4. Examination of histological sections	PM	-
		from photomicrographs/ permanent		
		slides of rat/human: testis,		
		epididymis and accessory glands of		
		male reproductive systems; ovary,		
		fallopian tube, uterus		
		(Proliferative and secretory stages),		
		cervix and vagina.		
GENERAL	DSE-A-5-1-	Unit 1: Host & Parasite Relationship	DD	02
	тн	Unit 2: Epidemiology of Diseases	SK	05
	Applied	Unit 3: Parasitic Protozoa	DD	07
	Zoology	Unit 4: Parasitic Helminthes	SK	08
		Unit 5: Insect of Economic Importance	PM	08
		Unit 6: Insect of Medical Importance	РМ	02
		Unit 7: Animal Husbandry	SC	06
		Unit 8: Poultry Farming	SS	06
		Unit 9: Fish Technology	SS	06
	DSE-A-5-1-P	1. Study of <i>Plasmodium vivax</i> ,	DD, SK	60 Hrs
	Applied	Entamoeba histolytica, Trypanosoma		
	Zoology	gambiense, Ancylostoma duodenale		
		and Wuchereria bancrofti and their life		
		stages through permanent slides/		
		photomicrographs or		
		specimens.		4
		2. Study of arthropod vectors	SK	
		associated with human diseases:		
		Pediculus, Culex, Anopheles, Aedes		4
		3. Study of insect damage to different	SK	
		plant parts/stored grains through		
	1	damaged products/photographs.		

			4. Identifying feature and economic importance of <i>Helicoperva; Heliothis</i> <i>armigera,Papilio demoleus,</i> <i>Pyrilla perpusilla, Callosobruchus</i> <i>chinensis, Sitophilus oryzae</i> and <i>Tribolium castaneum</i>	SK	
			5. Visit to poultry farm or animal breeding centre. Submission of visit report	SK	
			6. Maintenance of freshwater aquarium (demonstration only)	SK	
6	HONS	CC6-13-TH	Unit 1: Early Embryonic Development	PM	20
•		Development	Unit 2: Late Embryonic Development	PM	10
		al Biology	Unit 3: Post Embryonic Development	PM	08
			Unit 4: Implications of Developmental	РМ	12
			Biology		
		СС-6-13-Р	1. Study of whole mounts of	РМ	60 Hrs
		Development	developmental stages of chick embryo		
		al Biology	through permanent slides: 24, 48, and		
			96		
			hours of incubation	DNA	
			2. Study of the developmental stages and life cycle of <i>Drosophila</i>	PM	
			3. Study of different sections of	PM	
			placenta (photomicropgraph/ slides)		
			4. Identification of Invertebrate larva	РМ	
			through slides/ photographs of Phylum		
			Annelida, Arthropoda, Mollusca		
			and Echinodermata		
		CC6-14-TH	Unit 1: Origin of Life	SC	
		Evolutionary	Unit 2: Historical Review of	SC	
		Biology	Evolutionary Concepts		
			Unit 3: Geological time Scale	SC	
			Unit 4: Natural Selection	SC	
			Unit 5: Species Concept	SC	
			Unit 6: Origin and Evolution of Man	SC	
			Unit 7: Population Genetics	SK	
			Unit 8: Extinction	SC	
		CC C 14 D	Unit 9: Phylogenetic Tree	SC	COLUm
		CC-6-14-P Evolutionary	1. Study of fossils from models/ pictures: Dickinsonia, Paradoxides	SC	60 Hrs
		Biology	(Trilobita), Asteroceras (Ammonoid),		
		Diology	Pentremites (Blastoid Echinoderm),		
			Ichthyosaur, Archaeopteryx,		
			Cynodont.		
			2. Study of homology and analogy	SC	
			from suitable specimens.		_
			3. Phylogenetic trees, Construction &	SC	
			interpretation of Phylogenetic tree		
			using parsimony, Construction of dendrogram following principles of		
			phenetics & cladistics from a data		
			table.		

	DSE(A)-6-2-	Unit 1: Introduction	SK	05
	TH Animal	Unit 2: Molecular Techniques in Gene	SK	23
	Biotechnolo	manipulation	5	
	gy	Unit 3: Genetically Modified	SK	12
		Organisms		
		Unit 4: Culture Techniques and	SK	10
		Application		
	DSE(A)-6-2-	1. Genomic DNA isolation from <i>E</i> .	SK	60 Hrs
	P	<i>coli</i> and Plasmid DNA isolation (pUC	U.V.	001113
	Animal	18/19) from <i>E. coli</i>		
	Biotechnolo	2. To study following techniques	SK	
	gy	through photographs - Southern		
	87	Blotting, Northern Blotting, Western		
		Blotting, PCR, DNA fingerprinting		
		3. Project report on animal cloning &	SK	
		Application & ethical Issues.		
	DSE(B)-6-1-	Unit 1: Patterns of Behaviour	DD	10
	тн	Unit 2: Social and Sexual Behaviour	DD	20
	Animal	Unit 3: Chronobiology & Biological	DD	20
	Behaviour	Rhythm		
	DSE(B)-6-1-	1. To study nests and nesting habits of	DD	60 Hrs
	P	the birds and social insects.		
	Animal	2. To study the behavioural responses	DD	
	Behaviour	of wood lice to dry and humid		
		conditions (demonstration		
		only).		
		3. To study geotaxis behaviour in	DD	
		earthworm.		
		4. To study the phototaxis behaviour in	DD	
		insect larvae.		
		5. Visit to Forest/Wildlife	DD	
		Sanctuary/Biodiversity		
		Park/Zoological Park to study		
		behavioural activities of		
		animals and prepare a short report. 6. Study of circadian functions in	DD	
		humans (daily eating, sleep and	00	
		temperature patterns).		
GENERAL	DSE-B-6-2-	Unit 1: Introduction to Ecology	SS	04
	TH	Unit 2: Population	SS	20
	Ecology &	Unit 3: Community	SS	11
	Wildlife	Unit 4: Ecosystem	SS	10
	Biology	Unit 5: Wildlife	SS	05
	DSE-B-6-2-P	1. Identification of flora, mammalian	SS SS	60 Hrs
		fauna, avian fauna	33	
	Ecology & Wildlife	2. Demonstration of basic equipment	SS	
		needed in wildlife studies use, care and	33	
	Biology	maintenance (Compass,		
		Binoculars, Spotting scope, Range		
		Finders, Global Positioning System, Various types of Cameras and		

	3. Familiarization and study of animal evidences in the field; Identification of animals through pug marks, hoof marks, scats, pellet groups, nest, antlers, etc.	SS	
	4. Study of an aquatic ecosystem: Phytoplankton and zooplankton, Measurement of area, temperature, salinity, determination of pH, and Dissolved Oxygen content (Winkler's method), Chemical Oxygen Demand and free CO ₂	SS	
SEC-B-6-4- TH	Unit 1: Diagnostic Methods Used for Analysis of Blood	SK	08
Medical Diagnosis	Unit 2: Diagnostic Methods Used for Urine Analysis	SS	04
	Unit 3: Non-infectious Diseases	DD	06
	Unit 4: Infectious Diseases	SC	03
	Unit 5: Clinical Biochemistry	SS	01
	Unit 6: Clinical Microbiology	SC	01
	Unit 7: Tumours	SK	02
	Unit 8: Visit to Pathological Laboratory and Submission of Project	SC	05

- PM Dr. PATRALEKHA MUKHOPADHAY
- SS Dr. SUCHARITA SAHA
- DD Dr. DEBJANI DAS (GHOSH)
- SC Sm. SUCHONA CHAKRABORTY
- SK Sri SUMALLYA KARMAKAR