DEPARTMENT OF ZOOLOGY

ACADEMIC PLANNER-2022-23

1ST SEMESTER

Week/Month and Date (preferably)		Day	Portions Planned for 1 hour	Teacher
OCTOBER	1st week	1	Unit IV: Chapter 7: Human chromosomes and patterns of inheritance	Dr.CB
		2	Unit II: Chapter 3:Structure and function of nucleus in eukaryotes	DL
		3	Unit III, Chapter 5: Mandelism and sex determination: Introduction and basic principles of herdity	RB
		4	Unit-I- chapter 1- structure and function of cell organells I in animal cell	RB
	2nd week	1	Unit IV: Patterns of inheritance: autosomal dominance, autosomal recessive	Dr. CB
		2	Unit II : Chapter 3:Structure and function of nucleus in eukaryotes	DL
		3	Unit III, Chapter 5: Mandelism and sex determination: Monohybrid cross	RB
		4	Unit-I- chapter 1- structure and function of cell organells I in animal cell	RB
	3rd week	1	Unit IV: patterns of inheritance: X-linked dominance,X- linked recessive	Dr. CB
		2	Unit II: Chapter 3:Chemical structure and base composition of DNA and RNA	DL
		3	Unit III, Chapter 5: Mandelism and sex determination: Di hybrid cross	RB
		4	Unit-I- chapter 1- structure and function of cell organells I in animal cell	RB
	4th week	1	Unit IV: Chromosomal anomalies: Structural and Numerical abberations with examples	Dr. CB
		2	Unit II : Chapter 3: Chemical structure and base composition of DNA and RNA	DL
		3	Unit III, Chapter 5: Mandelism and sex determination: Incomplete dominance	RB
		4	Unit-I- chapter 1- structure and function of cell organells I in animal cell	RB

Week/Month and Date (preferably)		Day	Portions Planned for 1 hour	Teacher
NOVEMBER	1st week	1	Unit IV: Chromosomal anomalies: structural and Numerical abberations with examples	Dr. CB
		2	Unit II: Chapter 3: DNA Supercoiling, Chromatin organization and structure of chromosomes	DL
		3	Unit III, Chapter 5: Mendelism and sex determination: penetrance and expressivity	RB
		4	Unit I- Chapter-2- plasma membrane- chemical structure	RB
	2nd week	1	Unit IV: Human Karyotyping and pedigree analysis	Dr. CB
		2	Unit II: Chapter 3: DNA Supercoiling, Chromatin organization and structure of chromosomes	DL
		3	Unit III, Chapter 5: Mendelism and sex determination: Genetic sex determining systems	RB
		4	Unit I- chapter 3- endomembrane system	RB
	3rd week	1	Unit IV: Human Karyotyping and pedigree analysis	Dr. CB
		2	Unit II : Chapter 3: Types of DNA and RNA	DL
		3	Unit III, Chapter 5: Mendelism and sex determination: Environmental sex determination	RB
		4	Unit I- CHAPTER 3- Transport,	RB
	4th week	1	Unit IV: Chapter 8: Infectious diseases: Introduction	Dr. CB
		2	Unit II : Chapter 3: Types of DNA and RNA	DL
		3	Unit III, Chapter 5: Mendelism and sex determination: sex determination and mechanism in drosophile	RB
		4	Unit I- chapter 3- endocytosis and exocytosis	RB

Week/Month and Date		Day	Portions Planned		Teacher
(preferably)			for 1 hour		
DECEMBER	1st week	1	Unit IV: Chapter 8: Introduction to pathogenic organisms: viruses, bacteria, fungi, protozoa and worms		Dr. CB
		2	Unit II : Chapter 4: Cell division -Mitosis		DL
		3	Unit III, Chapter 5: Mendelism and sex determination: sex-linked characteristics in humans		RB
		4			RB
	2nd week	1	Unit IV: Chapter 8: Introduction to pathogenic organisms: viruses, bacteria, fungi, protozoa and worms		Dr. CB
		2	Unit II : Chapter 4: Cell division -Meiosis		DL
		3	Unit III: Chapter 6: Extensions of Mendelism, Multiple allelism		RB
		4	Unit I- Chapter 2- structure and function of cell organelles II in animal cell		RB
	3rd week	1	Unit IV: Chapter 8: Structure, life cycle, pathogenicity, including diseases, causes,symptoms and control		Dr. CB
		2	Unit II : Chapter 4: Introduction to cell cycle and its regulation, apoptosis		DL
		3	unit III; Chapter 6; The interaction genes and environment		RB
		4	Unit I: Mitiochondria structure and ETS and Oxidative phosphorylation		RB
	4th week	1	Unit Iv Chapter 8: Structure, life cycle *Trypanosoma, Giardia, Wuchereria*		Dr. CB
		2	Unit II: Chapter 4: Signal transduction: Intra cellular 11 Signaling and cell surface receptors, cellular junctions		DL
		3	unit III; CHAPTER 6 ;environmental effects of gene inter action, : inheritance of continuous characteristics		RB
		4	Peroxysome and ribosome		RB

Name of the	ZOOLOGY	Subject Title --	OPEN ELECTIVE	
Department				
Semester	1	Paper	1	

Week/Month and Date (preferably)		Day	Portions Planned for 1 hour			Teacher
OCTOBER	1st week	1	Unit I sericulture: history and present status			Dr.CB
		2	Unit III: Chapter 5: Common fishes used for culture			DL
		3	Unit II: Chapter 3: Live stock management: Dairy: Introduction to common dairy animals			RS
	2nd week	1	Unit I sericulture: mulberry and Non mulberry species			Dr. CB
		2	Unit III: Chapter 5: Fishing crafts and gears			DL
		3	Unit II: Chapter 3: Techniques of dairy management			RS
	3rd week	1	Unit I sericulture: Mulberry cultivation			Dr. CB
		2	Unit III: Chapter 5: Ornamental fish culture			DL
		3		Unit II: Chapter 3 Types of dairy farming:		RS
	4th week	1	Unit I sericulture: Morphology and life cycle of Bombyx mori			Dr. CB
		2	Unit III: Chapter 5: Construction and maintenance of aquarium			DL
		3	Unit II: Chapter 3: Dairy: Advantages and limitations of dairy farming			RS

Name of the	ZOOLOGY	Subject Title --	Open elective		
Department					
Semester	1	Paper	1		

Week/Month and Date		Day	Portions Planned			Teacher
(preferably)			for 1 hour			
	1st week	1	Unit I sericulture: silk worm rearing techniques, processing of cocoons			Dr. CB
		2	Unit III: Chapter 5: Modern techniques of fish seed production			DL
		3	Unit II: Chapter 3: Dairy: Cattle feeds , milk and milk products			RS
	2nd wee	1	Unit I sericulture: diseases of silk worm and pest control			Dr. CB
		2	Unit 3: Chapter:6: Prawn culture: Culture of fresh and marine prawns			DL
		3	Unit II: Chapter 3: Dairy: Cattle diseases			RS
NOVEMBER						
	3rd week	1	Unit I chapter 2: Apiculuture: Introduction and present status			Dr. CB
		2	Unit 3: Chapter:6: Prawn culture: Preparation of farms			DL
		3	Unit II: Chapter 3 : Poultry: Types of breeds			RS
	4th week	1	Unit I chapter 2: Apiculuture: species of honey bees in india			Dr. CB
		2	Unit 3: Chapter:6: Prawn culture: Preservation and processing of prawns			DL
		3	Unit II: Chapter 3 : Poultry: Rearing methods			RS

Name of the	ZOOLOGY	Subject Title --	Open elective		
Department					
Semester	1	Paper	1		

Week/Month and Date		Day	Portions Planned		Teacher
(preferably)			for 1 hour		
	1st week	1	Unit I chapter 2: Apiculuture: Like cycle of Apis indica		Dr. Cb
		2	Unit 3: Chapter 7: Vermiculture:Scope of vermiculture and types of earthworm		DL
		3	Unit II: Chapter 3 : Poultry: Rearing methods		RS
	2nd week	1	Unit I chapter 2: Apiculuture: colony organization, division of labour and communication		Dr. CB
		2	Unit 3: Chapter 7: Vermiculture: Habit categories		DL
		3	Unit II: Chapter 3 : Poultry:Feed formulations for chick		RS
DECEMBER					
	3rd week	1	Unit I chapter 2: Apiculuture: Methods and equpiments, Indegenious method, extraction and applica		Dr. CB
		2	Methodology of vermicomposting, and advantages		DL
		3	Unit II: Chapter 3 : Poultry: Nutritive value of egg and meet		RS
	4th week	1	Unit I chapter 2: Apiculuture		Dr. CB
		2	Diseases and pests of earthworms		DL
		3	Unit II: Chapter 3 : Poultry: Diseases of poultry and control measures		RS

Name of the	ZOOLOGY	Subject Title --	Open elective		
Department					
Semester	1	Paper	1		

Week/Month and Date		Day	Portions Planned			Teacher
(preferably)			for 1 hour			
JANUARY	1st week	1	Unit I chapter 2: Apiculuture: Extraction of honey from the comb and processing			Dr. Cb
		2	History of lac and its organization			DL
		3	Unit II: Chapter 4: Aquaculture:Overview and present status of aquaculture in India			RS
	2nd week	1	Unit I chapter 2: Apiculuture: Bee pasturage, Honey and bee wax uses			Dr. CB
		2	Unit -3 Chapter 8: Lac culture: Lac production in India			DL
		3	Unit II: Chapter 4: Aquaculture; Scope of aquaculture			RS
	3rd week	1	Unit I chapter 2: Apiculuture: pests and diseases of bees and their management			Dr. CB
		2	Unit -3 Chapter 8: Lac culture : Life cycle, host plants and strains of lac Insects			DL
		3	Unit II: Chapter 4: Aquaculture; Types			RS
	4th week	1	Seminar			Dr. CB
		2	Unit -3 Chapter 8: Lac culture : Lac cultivation			DL
		3	Unit II: Chapter 4: Aquaculture; Construction, maintenance of pond management			RS

Name of the	ZOOLOGY	Subject Title --	open elective		
Department					
Semester	1	Paper	1		

Week/Month and Date		Day	Portions Planned			Teacher
(preferably)			for 1 hour			
FEBRUARY	1st week	1	SEMINAR			RS
		2	Unit -3 Chapter 8: Lac culture: Lac composition, processing , products , uses and their pests			DL
		3	Unit II: Chapter 4: Aquaculture: Culture of Carps, shrim, shell fish and pearl, composite fish culture			RS

Name of the	ZOOLOGY	Subject Title --	Chordata	
Department				
Semester	3	Paper	3	

Week/Month and Date		Day	Portions Planned			Teacher
(preferably)			for 1 hour			
OCTOBER	1st week	1	Unit III- 3.1- Mammalia -General characters			RB
		2	Unit I-Protochordata 1.1 Chordata general characters			Dr. SS
		3	Unit-I-1.6- Pisces-General characters of Super class Pisces.			DL
		4	unit -II 2.4 General characters and classification of modern reptiles wit			Dr. CB
	2nd week	1	Unit III - 3.1- Mammalia classification			RB
		2	Unit I-1.2 chordata classification			Dr. SS
		3	Unit-I-1.6- Pisces- Classification upto sub-classes			DL
		4	Unit II 2.4 General characters and classification of modern reptiles wit			Dr. CB
	3rd week	1	Unit III - 3.2- Type study- Rat- Morphology			RB
		2	Unit I-1.2 Urochordata- Herdmania morphology			Dr. SS
		3	Unit-I.7 Dipnoi			DL
		4	Unit II 2.4 Adaptive radiation in extinct reptiles with suitable examples			Dr. CB
	4th week	1	Unit III-3.2-RAT -digestive system			RB
		2	Unit I-1.2 Urochordata- Herdmania- tadpole of herdmania			Dr. SS
		3	Unit-I 1..8- Migration in fishes			DL
		4	Unit II 2.4 Adaptive radiation in extinct reptiles with suitable examples			Dr. CB

Name of the Department	ZOOLOGY	Subject Title --	Chordata	
Semester	3	Paper	3	

Week/Month and Date (preferably)		Day	Portions Planned for 1 hour		Teacher
	1st week	1	Unit II 2.4 Temporal fossae in reptiles		Dr. CB
		2	Unit I-1.2 Urochordata- Herdmania- Retrogressive metamorphosis		Dr. SS
		3	Unit III-3.2- Rat circulatory system-arterial		RB
		4	Unit II- 2.3- Frog Osteology- Pectoral and Pelvic girdles and limb bones		DL
	2nd week	1	Unit III - 3.2- Type study- Rat- Circulatory system - venous		RB
		2	Unit I- 1.3- Cephalochordata- Amphioxus- Morphology		Dr. SS
		3	Unit II- 2.3- Frog Osteology- Pectoral and Pelvic girdles and limb bones		DL
		4	Unit II- 2.4- Temporal fossae in reptiles		Dr. CB
NOVEMBER					
	3rd week	1	Unit III - 3.2- Type study- Rat- Brain and cranial nerves		RB
		2	Unit I- 1.3- Cephalochordata- Amphioxus- Feeding		DR. SS
		3	Unit I -1.4- Agantha general characters		DL
		4	Unit- II- 2.4- Interesting features of Sphenodon		Dr. CB
	4th week	1	Unit III - 3.2- Type study- Rat-Urinogenital system - male		RB
		2	Unit I- 1.5- Ammocete larva		DL
		3	Unit-II 2.7- General characters, differences between Ratitae and Carin		Dr. CB
		4	Unit-I-1.3-Amphioxus - circulatory system		DR. SS

Name of the Department	ZOOLOGY	Subject Title --	Chordata	
Semester	3	Paper	3	

Week/Month and Date (preferably)		Day	Portions Planned for 1 hour			Teacher
	1st week	1	Unit III - 3.2- Type study- Rat-Urinogenital system - female			RB
		2	Unit II 2.1- General characters of Amphibia			DL
		3	Unit-II 2.7- General characters, differences betweeen Ratitae and Cari			Dr. CB
		4	Unit IV – 4.2- Poultry – definition and breeds			Dr.SS
	2nd week	1	Unit IV- 4.3- Economic Zoology-- Dairy Breeds of cattle			RB
		2	Unit IV – 4.2- Poultry – definition and breeds			Dr. SS
		3	Unit-II 2.8 Interesting features of Archaeopteryx			Dr. CB
		4	Unit II 2.1- Classification of Amphibia			DL
DECEMBER						
	3rd week	1	Unit IV- 4.3- Improvements in breeding- Artificial insemination			RB
		2	Unit IV – 4.2- Poultry – diseases			Dr. SS
		3	Unit-II 2.9 Flight adaptations in birds			Dr. CB
		4	Unit II 2.1- origin of Amphibia			DL
	4th week	1	Unit I- IV- 4.3- MOET			RB
		2	Unit IV – 4.2- Poultry – products			Dr. SS
		3	Unit-IV 4.1 Pisciculture introduction			DL
		4	Unit II 2.9 Flight adaptations in birds			Dr. CB

Name of the	ZOOLOGY	Subject Title --	Chordata		
Department					
Semester	3	Paper	3		

Week/Month and Date (preferably)		Day	Portions Planned for 1 hour		Teacher
JANUARY	1st week	1	Unit II 3.0 Migration in birds		Dr. CB
		2	Unit IV – 4.2- Poultry – by products		Dr. SS
		3	Unit-IV-4.1-a- Pisiculture		DL
		4	Unit I- IV- 4.3- Bi products of dairy		RB
	2nd week	1	Unit II 3.0 Migration in birds		Dr. CB
		2	Revision		Dr. SS
		3	Unit-IV-4.1-a- Inland and Marine fisheries		DL
		4	Seminar		RB
	3rd week	1	Seminar		Dr. CB
		2	Seminar		RB
		3	Unit-IV-4.1-a- Procedure, composite fish farming		DL
		4	Revision		Dr. SS
	4th week	1	Seminar		Dr. CB
		2	Seminar		RB
		3	Unit-IV-4.1-a- Significance, processing and preservation		DL
		4	Revision		Dr. SS

Name of the	ZOOLOGY	Subject Title --	ENVIRONMENTAL BIOLOGY AND ETHOLOGY	
Department				
Semester	5	Paper	5	

Name of the	ZOOLOGY	Subject Title --	Non- Chordata 1	
Department				
Semester	3	Paper	3	

Week/Month and Date		Day	Portions Planned		Teacher
(preferably)			for 1 hour		
FEBUARY	1st week	1	Seminar		Dr. CB
		2	Seminar		RB
		3	Seminar		DL
		4	Seminar		Dr. SS

Name of the	ZOOLOGY	Subject Title --	ENVIRONMENTAL BIOLOGY AND ETHOLOGY	
Department				
Semester	5	Paper	5	

Week/Month and Date		Day	Portions Planned				Teacher
(preferably)			for 1 hour				
OCTOBER	1st week	1	Unit- II- 2.1-a- Toxicology- Definition, types and Toxins				Dr. CB/RB
		2	Unit -I-1.1 a- Environmental biology-Fundamentals of Ecology and scope				Dr. SS
		3	Unit-III-3.1-Ethology- Introduction				DL
	2nd week	1	Unit- II- 2.1-b & c- Mechanism and toxicity and concepts				Dr. CB/RB
		2	Unit-I- 1.1 b- Concept of Habitat				Dr. SS
		3	Unit-III-3.2- Sterotyped behaviour-kinesis, taxes				DL

Name of the	ZOOLOGY	Subject Title --	ENVIRONMENTAL BIOLOGY AND ETHOLOGY	
Department				
Semester	5	Paper	5	

		1	Unit- II- 2.2- Integrated (IPM)	Dr CB/RB
	3rd week	2	Unit-I- 1.1 c - Concept of Ecological niche	Dr. SS
		3	Unit-III-3.2-a-Reflexes,instincts and motivation	DL
	4th week	1	Unit- II- 2.3-a&b- Energy resources- types, energy sources	Dr. CB/RB
		2	Unit-I- 1.1- d- Abiotic factors	Dr. SS
		3	Unit-III-3.2-b- Acquired behaviour	DL

Week/Month and Date (preferably)		Day	Portions Planned for 1 hour			Teacher
NOVEMBER	1st week	1	Unit- II- 2.3-c- Nuclear energy and reactions			Dr. CB/RB
		2	Unit-I- 1.2- Energy flow in the Ecosystem			Dr.SS
		3	Unit-III-3.3- Pheramones and behaviour			DL
	2nd week	1	Unit- II- 2.4- Solid waste management			Dr.CB/RB
		2	Unit-I- 1.3- Concept of Productivity			Dr. SS
		3	Unit-III-3.4- Social behaviour in honey bees			DL
	3rd week	1	Unit- II 2.5- Wild life conservation and its management-Red data book			Dr. CB/RB
		2	Unit-I- 1.4- Population Ecology- Density, Natality and Mortality			Dr. SS
		3	Unit-III-3.4- Social behaviour in termites and honey bees			DL
	4th week	1	Unit- II 2.5-b- In-situ conservation			Dr. CB/RB
		2	Unit-I- 1.4- Age distribution, Growth, Dispersion and Biotic potential			Dr.SS
		3	Unit-III-3.7- Parental care in Fishes and amphibians			DL

Name of the	ZOOLOGY	Subject Title --	ENVIRONMENTAL BIOLOGY AND ETHOLOGY	
Department				
Semester	5	Paper	5	

Week/Month and Date		Day	Portions Planned				Teacher
(preferably)			for 1 hour				
DECEMBER	1st week	1	Unit- II 2.5-c-ex-situ conservation				Dr. CB/RB
		2	Unit-I- 1.5- Community Ecology- Interspecific interactions- Negative				Dr. SS
		3	Unit-III-3.4- Social dominance and territorality				DL
	2nd week	1	Unit- II 2.6-a-Remote sensing-principles and types				Dr. CB/RB
		2	Unit-I- 1.5- Community Ecology- Interspecific interactions- Positive				Dr. SS
		3	Unit-III-3.4- a-Social systems in primates				DL
	3rd week	1	Unit- II 2.6-b- Remote sensing-Geographic information centre				Dr. CB/RB
		2	Unit-I- 1.6- Ecological sussession- Introduction, causes and trends				Dr. SS
		3	Unit-III-3.5. Biological rhythms: Definition, Circadian rhythm and biological clock				DL
	4th week	1	Unit- I- 1.7- Current environmental issues- green house effect				Dr. CB/RB
		2	Unit-I- 1.6- Types, process examples, Concept of climax				Dr. SS
		3	Unit-III-3.6-Communication in animals				DL

Name of the	ZOOLOGY	Subject Title --	ENVIRONMENTAL BIOLOGY AND ETHOLOGY	
Department				
Semester	5	Paper	5	

Week/Month and Date		Day	Portions Planned	Teacher
(preferably)			for 1 hour	
JANUARY	1st week	1	Unit- I- 1.7-b-Acid rain , global warming	Dr. CB/RB
		2	Seminar	Dr. SS
		3	Unit-III-3.6- Communication in animals	DL
	2nd week	1	Unit- I- 1.7-c- Ozone layer depression	Dr. CB/RB
		2	Seminar	Dr. SS
		3	Unit-III-3.6- Biological rhythms and clock	DL
	3rd week	1	Seminar	Dr. SS
		2	Revision	Dr. CB/RB
		3	Unit-III-3.7- Types of communications	DL
	4th week	1	Revision	Dr. CB/RB
		2	Revision	Dr. SS
		3	Unit-III-3.7- Dances of honey bees	DL

Name of the	ZOOLOGY	Subject Title --	ENVIRONMENTAL BIOLOGY AND ETHOLOGY	
Department				
Semester	5	Paper	5	

Week/Month and Date		Day	Portions Planned	Teacher
(preferably)			for 1 hour	
FEBUARY	1st week	1	Revision	Dr. CB/RB
		2	Revision	Dr. SS
		3	Special or unique behaviour	DL

Name of the Department	ZOOLOGY	Subject Title - -	GENETICS AND BIOTECHNOLOGY	
Semester	5	Paper	6	

Week/Month and Date (preferably)		Day	Portions Planned for 1 hour			Teacher
OCTOBER	1st week	1	Unit III 3.1 Molecular tools: Restriction enzymes, DNA ligases, Alkalline phosphatase			**Dr. CB**
		2	UNIT I: 1.1- Genetics: Heredity and environment: Concept of genotype,phenotype,Norm of reactions			RB
		3	Unit II:2.1: Gaint chromosomes: polytene chromosomes			**RS**
	2nd week	1	Unit III 3.1Vectors: plasmids, Bacteriophages and Cosmids			**Dr. CB**
		2	UNIT I: 1.1- Genetics: Heredity and environment: Fur colour in Himalayan Rabbit, studies of Human twins			RB
		3	Unit II: 2.2: Gaint chromosomes; lamp brush chromosomes			**RS**
	3rd week	1	Unit III 3.1Host Cells, Biorectors: Definition, type and applications			**Dr. CB**
		2	Unit I:1.2 Introduction to mendelism: Medelian principles Law of segregation			RB
		3	Unit II: 2.2 Gaint chromosomes: gynandromorphs and free martins			**RS**
	4th week	1	Unit III 3.1Methods of gene transfer: Microinjection, electroporation of DNA, lipofection			**Dr. CB**
		2	Unit I:1.2 Introduction to mendelism: Law of independent assortment			RB
		3	Unit II: 2.2 chromosomal basis of sex determination			**RS**

Name of the	ZOOLOGY	Subject Title --	GENETICS AND BIOTECHNOLOGY	
Department				
Semester	5	Paper	6	

Week/Month and Date		Day	Portions Planned			Teacher
(preferably)			for 1 hour			
NOVEMBER	1st week	1	Unit III 3.2 Application of Biotechnology: Transgenesis			**Dr.** CB
		2	unit I 1.3 Deviation from Mendelism: Mutiple allelism			RB
		3	Unit II: 2.2 -genic balance theory			**RS**
	2nd week	1	Unit III 3.2 Animal improvement			**Dr. CB**
		2	unit I 1.3 Deviation from Mendelism: Rh factor and its inheritance, significance of Rh factor: Erythroblastosis foetalis			RB
		3	Unit II: 2.4: Concept of gene: Fine structure of gene: Cistron, Recon and Muton			**RS**
	3rd week	1	Unit III 3.2 Animal improvement Artifical inseminstion			**Dr. CB**
		2	unit I 1.3 Deviation from Mendelism: Interaction of genes			RB
		3	Unit II: 2.4: Concept of gene: : operon concept, Inducible operon			**RS**
	4th week	1	Unit III 3.2 Gene therapy: Somatic cell gene therapy, Embryo cell gene therapy and germ cell			**Dr. CB**
		2	unit I 1.3 Deviation from Mendelism: Multiple factor inheritance of comb shape in poultry			RB
		3	Unit II 2.5: Gene mutations: Spontaneous and induced mutations			**RS**

Name of the Department	ZOOLOGY	Subject Title --	GENETICS AND BIOTECHNOLOGY	
Semester	5	Paper	6	

Week/Month and Date (preferably)		Day	Portions Planned for 1 hour	Teacher
DECEMBER	1st week	1	Unit III 3.2 Gene therapy: In vivo and ex -Vivo	**Dr. CB**
		2	unit I 1.3 Deviation from Mendelism: sex linkage introduction	RB
		3	Unit II 2.5: Gene mutations: CIB method of detection of mutations	**RS**
	2nd week	1	unit III 3.2 stem cells: Introduction, features, types sources and application	**Dr. CB**
		2	unit I 1.3 Deviation from Mendelism: sex linkage introduction	RB
		3	Unit II 2.5: Gene mutations: physical mutagens	**RS**
	3rd week	1	Unit III 3.2 Hybridoma technology Monoclonal antibodies and their applications	**Dr. CB**
		2	unit I 1.3 Deviation from Mendelism: X- linked inheritance-eye colour in drosophila	RB
		3	Unit II 2.5- chemical and biological mutagens	**RS**
	4th week	1	Unit III 3.2 DNA Finger printing: Definition, Steps invovled and applicatins	**Dr. CB**
		2	unit I 1.3 Deviation from Mendelism: constuction of pedigree charts for haemophilia	RB
		3	Unit II 2.3- a) numerical aneuploidy - Downs syndrome, cri-du-chat syndrome	**RS**

Name of the	ZOOLOGY	Subject Title --	GENETICS AND BIOTECHNOLOGY	
Department				
Semester	5	Paper	6	

Week/Month and Date		Day	Portions Planned				Teacher
(preferably)			for 1 hour				
JANUARY	1st week	1	Unit III 3.3 PCR technique : Definition, Steps invovled and applications				Dr. CB
		2	unit I 1.3 Deviation from Mendelism: constuction of pedigree charts for colour blindless				RB
		3	UNITII- 2.3- Turners syndrome, klinefelters syndrome				RS
	2nd week	1	Unit III 3.3: RFLP, RAPD and AFLP: Definition and applications.				Dr. CB
		2	unit I 1.3 Deviation from Mendelism: Y- linked inheritance: Hyoertrichosis in man				RB
		3	unit II- GENETIC DISEASES--- alcaptonuria, albinism, thalessemia				RS
	3rd week	1	Seminars				Dr. CB
		2	unit I 1.4: Cytoplasmic inheritance: Kappa particles in paramecium				RB
		3	unit-II- 2.3-GALCTOSEMIA, cystic fibrosis				RS
	4th week	1	Seminars				Dr. CB
		2	unit I 1.4: Cytoplasmic inheritance: coiling of shells in snail				RB
		3	Unit- II-2.6- a) Eugenics, Euphenics				RS

Name of the	ZOOLOGY	Subject Title --	GENETICS AND BIOTECHNOLOGY	
Department				
Semester	5	Paper	6	

Week/Month and Date		Day	Portions Planned				Teacher
(preferably)			for 1 hour				
FEBUARY	1st week	1	REVISION				Dr. CB
		2	REVISION				RB
		3	REVISION				RS