Name of the teacher: Prof . Pawar A.H

Year: 2021-22

Se	mester: I					Paper: I	Class: TYBSe		
Su	bject: Pest	managen	nent			Taper.	Part II : Evaluation of Plan		
			Par	t I : Teachi	ng Plan	7	8	9	10
Sr.	2 Month	3 Week		No. of	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
No.			working days	periods available			Pest: Definition, Types of pests, Types		
	July	2 &			1. Pest: Definition, Types of pests, Types of damages caused by the pest. 2. Pest management using Regulatory control: Quarantine, Eradication, Control districts, "Crop-free" periods.	8	of damages caused by the pest.  2. Pest management using Regulatory control: Quarantine, Eradication, Control districts, "Crop-free" periods.	Nil	
1	August	4	11	8	3. Pest management using Cultural control:Sanitation, Tillage,Crop rotation. Cropping systems.  4. Pest management using Biological control:  Ecological considerations, Biological control of insects, Biological control of plant disease, Biological control of weeds.	9	Pest management using Cultural control:Sanitation,Tillage,Crop rotation.     Cropping systems.     Pest management using Biological control:     Ecological considerations, Biological control of insects, Biological control of plant disease, Biological control of weeds.		Extra lecture was conducted
	Sept 021 2	1 & 2	2 8		5. Biotechnology approaches in pest management: Introduction. Recent advance in use of fungi and viruses. Methodology in Biotechnology, Somaclonal variability, Concept of Genetic engineering and Transgenic plants.	8	5. Biotechnology approaches in pest management: Introduction. Recent advance in use of fungi and viruses. Methodology in Biotechnology, Somaclonal variability, Concept of Genetic engineering and Transgenic plants.	Nil	
S		8	2 8	6	i. Integrated pest management (PM): Principles and its omponents, Advantages and isadvantages, Biological control -	8	6. Integrated pest management (IPM): Principles and its components, Advantages and disadvantages, Biological control - Predators,		

				Predators, Parasitoids, Entomopathogens, Weed killers and their mass production. 7. Insecticides: Classification of insecticides based on mode of entry, Action and chemical nature.		Parasitoids, Entomopathogens, Weed killers and their mass production. 7. Insecticides: Classification of insecticides based on mode of entry, Action and chemical nature.	
Oct 5 2021	1 & 2	12	8	Insecticides formulations and their uses.  8 Safe handling of insecticides, Insecticide residue: Methods of residue detection – Organochlorine, Organophosphates, Synthetic Pyrithroides, Systemic, Problems in fruits, vegetables, medicinal plants, Maximum permissible residue limits (MRLs).	9	Insecticides formulations and their uses. 8 Safe handling of insecticides, Insecticide residue: Methods of residue detection – Organochlorine, Organophosphates, Synthetic Pyrithroides, Systemic, Problems in fruits, vegetables, medicinal plants, Maximum permissible residue limits (MRLs).	Extra lecture was conducted

2 One copy of the plan should be submitted at the beginning of the term after filling up columns 1 to 6.

The second copy must be retained by the teacher and submitted at the end of the term. Part second of the plan i. e. coumns 7 to 10 must be filled up progressively at the end of every week.

Signature of Teacher

Signature of Head of Department

Dr. J. P. Sangada

Head M.Sc.,Ph.D.,FZS)
Department of Zoology,
Arts, Science & Commerce College,
Indapur, Dist. Pune - 413108

Signature of Faculty In-charge

Science Faculty
Arts, Science & Commerce
College, Indapur, Dist. Pune

Signature of the Principal

PRINCIPAL

ARTS S SHOE AND

COMMERCE .

Name of the teacher: Prof Gunvare K.D. Year: 2021-22 Semester: I Subject: Histology Paper: II Class: TYBSc Part I: Teaching Plan Part II: Evaluation of Plan 5 Sr. Month Week No. of No. of 10 Topics to be taught No. of periods Topics taught No. Deviation in working periods Remarks engaged periods days available 1. Introduction: Definition and Scope of Histology. 1. Introduction: Definition and Scope of 2. Definitions and Review of Types of Histology. Tissues: Epithelial tissue, Connective 2. Definitions and Review of Types of July 2& tissue, Nervous tissue, Muscular Tissues: Epithelial tissue, Connective 2021 11 8 tissue. tissue, Nervous tissue, Muscular tissue. Nil 3. Histological study of following mammalian organs: Skin (V. S.), 3. Histological study of following Tooth (V.s), Tongue (C. S.) with mammalian organs: Skin (V. S.), Tooth August reference to mucosa papillae and Extra (V.s), Tongue (C. S.) with reference to 2021 1 &2 11 8 lecture was taste buds. mucosa papillae and taste buds. conducted 4. Histological study of Alimentary 4. Histological study of Alimentary canal canal and Liver: Oesophagus (T. S.), and Liver: Oesophagus (T. S.), Stomach Sept 1& Stomach (T. S.), Duodenum (T. S.), (T. S.), Duodenum (T. S.), Rectum (T. 2021 12 8 Rectum (T. S.), Liver (C. S.). S.), Liver (C. S.). Nil 5Histological study of Respiratory 5Histological study of Respiratory organs: Trachea (T. S.). Lung (C. S.). organs: Trachea (T. S.). Lung (C. S.). 6. Histological study of Excretory 6. Histological study of Excretory 3 & Sept organs: Kidney (L. S.), organs: Kidney (L. S.), Juxtaglomerular 2021 12 8 Juxtaglomerular complex. 8 complex. 7. Histological study of Reproductive 7. Histological study of Reproductive organs: Testis (T. S.) with reference organs: Testis (T. S.) with reference to Oct 1& to Seminiferous Tubules and Cells of Extra Seminiferous Tubules and Cells of 2021 12

Leydig, Ovary (C. S.).

lecture was

conducted

8

Leydig, Ovary (C. S.).

8 Histology of Endocrine 8 Histology of Endocrine glands:Pituitary gland, Thyroid glands:Pituitary gland, Thyroid gland, gland, Adrenal gland, Pancreas (C. Adrenal gland, Pancreas (C. S.) including S.) including both exocrine and both exocrine and endocrine endocrine components. The plan should be prepared in duplicate. components.

One copy of the plan should be submitted at the beginning of the term after filling up columns 1 to 6.

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Signature of Teacher

Signature of Head of Department

Signature of Faculty In-charge

Signature of the Principal PRINCIPAL

ARTS STENCE AND

Name of the teacher: Prof Bandpatte A. Semester: I

Year: 2021-22

			l Chemistry Pa	rt I : Teach	inσ Plan	Paper: III	Class: TYBSc		
1	2	3	4	5	6	_	Part II: Evaluation of Plan		
Sr. No.	Month	Wee	k No. of working	No. of periods	Topics to be taught	7 No. of periods	8 Topics taught	9 Deviation in	10 Remarks
			days	available		engaged		periods	Acmar RS
	July 2021	2 & 4	11	8	1. Introduction of Biochemistry: Importance of Biochemistry in Life Sciences. 2. p H and Buffers: Concept of pH, Concept of pH scale, biological significance of p H, Concept of acid and base, Ionization of acids and bases, Derivation of Henderson-Hassel Balch equation & its applications, Buffer - Definition, Concept, Functions, Types of buffer and Buffering Capacity.	8	1. Introduction of Biochemistry: Importance of Biochemistry in Life Sciences. 2. p H and Buffers: Concept of pH, Concept of pH scale, biological significance of p H, Concept of acid and base, Ionization of acids and bases, Derivation of Henderson-Hassel Balch equation & its applications, Buffer - Definition, Concept, Functions, Types of		
A 20	ugust	1 &2	11 8	3 1	3. Carbohydrates: Definition, Classification & Biological importance of Carbohydrates Isomerism in carbohydrates - Structural and Stereoisomerism, Significance of Gluconeogenesis, Glycogenolysis and Glycogenesis, Clinical Significance - Hypoglycemia and Hyperglycemia.	9	buffer and Buffering Capacity.  3. Carbohydrates: Definition, Classification & Biological importance of Carbohydrates Isomerism in carbohydrates - Structural and Stereoisomerism, Significance of Gluconeogenesis, Glycogenolysis and Glycogenesis, Clinical Significance - Hypoglycemia and Hyperglycemia.		Extra lecture v
Sep 202		1 &	12 8	b a	A. Amino acids and Proteins: General Structure of amino acids and Peptide bond, Essential and non-essential mino acids, Types of proteins, rotein structures (primary,	8	4. Amino acids and Proteins: General Structure of amino acids and Peptide bond, Essential and non-essential amino acids, Types of proteins, protein structures (primary, secondary, tertiary	Nil	conduct

					secondary, tertiary and quaternary structures with suitable example), Forces responsible for their stability, Biological importance of proteins – Biocatalysts, Carrier proteins Contractile proteins, Hormonal role of proteins.		and quaternary structures with suitable example), Forces responsible for their stability, Biological importance of proteins – Biocatalysts, Carrier proteins Contractile proteins, Hormonal role of proteins.		
4	Sept 2021	3 & 4	12	8	5. Enzymes: Nomenclature, Types and properties of enzymes, Regulatory and non-regulatory enzymes, Enzyme inhibition, Factors influencing enzyme activity (pH, temperature, substrate concentration), Introduction of isoenzymes and cofactor	8	5. Enzymes: Nomenclature, Types and properties of enzymes, Regulatory and non-regulatory enzymes, Enzyme inhibition, Factors influencing enzyme activity (pH, temperature, substrate concentration), Introduction of isoenzymes and cofactor		
5	Oct 2021 The plan sł	1 & 2	12	8 Junicoto	Clinical significance of enzymes - PKU and AKU 6. Lipids: Introduction. Fatty acids - Types and nomenclature (saturated and unsaturated), Clinical significance (obesity, atherosclerosis, myocardial infarction), Biological importance of lipids.	9	Clinical significance of enzymes - PKU and AKU 6. Lipids: Introduction. Fatty acids - Types and nomenclature (saturated and unsaturated), Clinical significance (obesity, atherosclerosis, myocardial infarction), Biological importance of lipids.	1	Extra lecture was conducted

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Signature of Teacher

Signature of Head of Department

Signature of Faculty In-charge

Signature of the Principal PRINCIPAL

ARTS S COMMA

Name of the teacher: Prof. Satav D.S.

Semester: I

Year: 2021-22

		netics	n.	-4 Y - 70 - *	Paper:	IV	Class: TYBSc		
1	2	3		rt I : Teach	ing Plan		Part II : Evaluation of Plan		
Sr.	Month		4	5	6	7	8	9	10
No.	Wionth	Wee	k No. of working days	No. of periods available		No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	July 2021	2 & 4	11	8	1. Introduction to genetics: Classical and Modern concept of Gene, Cistron, Muton, Recon, Mendel's laws of Inheritance.  2 Exceptions to Mendelian Inheritance: Incomplete dominance, Co-dominance, Multiple alleles: Concept, characteristics and importance of multiple	8	I. Introduction to genetics: Classical and Modern concept of Gene, Cistron, Muton, Recon, Mendel's laws of Inheritance.     Exceptions to Mendelian Inheritance: Incomplete dominance, Co-dominance, Multiple alleles: Concept, characteristics and importance of multiple	Nil	
	August 021	1 &2	11 8	8	Lethal alleles. 3. Gene Mutation: Definition, Types of mutations: spontaneous, induced, somatic, gametic, forward, reverse. Types of point mutation - deletion, insertion, substitution, transversion, transition, Mutagenic agents a) UV radiation and ionising radiation. b) Base analogs, alkylating and intercalating agents.	9	Lethal alleles.  3. Gene Mutation: Definition, Types of mutations: spontaneous, induced, somatic, gametic, forward, reverse. Types of point mutation - deletion, insertion, substitution, transversion, transition, Mutagenic agents a) UV radiation and ionising radiation. b) Base analogs, alkylating and intercalating agents.		Extra lecture w
Se	*	1 &			4. Sex-determination: Introduction, Types of sex determination: -XX-XY, ZZ-ZW, XX-XO and Parthenogenesis, Hypodiploidy, Gynandromorphism. 5. Population Genetics:Basic		4. Sex-determination: Introduction, Types of sex determination: -XX-XY, ZZ- ZW, XX-XO and Parthenogenesis, Hypodiploidy, Gynandromorphism. 5. Population Genetics:Basic Concepts in		- Consider
202	21   2		12   8	(	Concepts in population genetics:	8	population genetics: Mendelian	Nil	

4	Sept 2021	3 & 4	12	8	Mendelian population, gene pool, gene / allele, Frequency, chance mating (Panmictic mating), Hardy Weinberg law and its equilibrium.  6. Human Population Genetics: Karyotype, Genetic disorders, Structural & numerical alterations of chromosomes (chromosomal aneuploidy - Down, Patau, Edward,		population, gene pool, gene / allele, Frequency, chance mating (Panmictic mating), Hardy Weinberg law and its equilibrium.  6. Human Population Genetics: Karyotype, Genetic disorders, Structural & numerical alterations of chromosomes (chromosomal aneuploidy - Down, Patau, Edward, Turner and Klinefelter	
5	Oct 2021 The plan s	1 & 2	12	8	Turner and Klinefelter syndromes). 7. Sex linked inheritance in human: Colour – blindness, Haemophilia, Hypertrichosis 8. Application of genetics: Genetic counselling, Diagnostics & breeding technology.	9	syndromes).  7. Sex linked inheritance in human: Colour – blindness, Haemophilia, Hypertrichosis  8. Application of genetics: Genetic counselling, Diagnostics & breeding technology.	Extra lecture was conducted

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Signature of Teacher

Signature of Head of Department

Dr. J. P. Sarwade

Signature of Faculty In-charge

Science Faculty s,Science & Commerce llege,Indapur, Dist.Pune

Signature of the Principal

PRINCIPAL

ne teacher: Prof . Mengade N.S.

Year: 2021-22

Developmental Biology Subject: Part I: Teaching Plan Paper: V Class: TYBSc 4 Sr. Month Week Part II: Evaluation of Plan No. of No. of 7 No. Topics to be taught working periods 9 No. of periods 10 Topics taught days available Deviation in engaged Remarks periods Fundamentals of Developmental Biology: Definition and scope. Concepts in Fundamentals of Developmental Biology: Developmental Biology: Growth, Definition and scope. Concepts in Differentiation, Developmental Biology: Growth, Dedifferentiation, Cell determination, Cell communication, Differentiation, Dedifferentiation, Morphogenesis, Induction and Regeneration. Cell determination, Cell communication, Theories of Developmental Biology: Morphogenesis, Induction and Regeneration. Preformation, Pangenesis. Epigenesis. Axial Theories of Developmental Biology: gradient. Germplasm. Preformation, Pangenesis. Epigenesis. Axial Gametogenesis: gradient. Germplasm. Spermatogenesis & Structure of sperm with Gametogenesis: respect to human. Spermatogenesis & Structure of sperm with July 2 & 3.2 Oogenesis & Structure of ovum with respect to human. respect to human. 2021 11 3.2 Oogenesis & 8 3.3 Types of eggs. Structure of ovum with respect to human. Fertilization: 3.3 Types of eggs. Concept and types Chemotaxis. Sperm penetration: Acrosome Nil Fertilization: Concept and types reaction, Capacitation & Decapacitation. Chemotaxis. Sperm penetration: Acrosome Activation of ovum: Fertilization cone. reaction, Capacitation & Decapacitation. Prevention of polyspermy: Fast block & Slow Activation of ovum: Fertilization cone. block. Significance of fertilization. Prevention of polyspermy: Fast block & Slow August Cleavage and Blastula: Planes and block. Significance of fertilization. 2021 1 & 2 11 8 symmetry of cleavage. Types of cleavage. Cleavage and Blastula: Planes and Extra Definition and types of Blastulae. symmetry of cleavage. Types of cleavage. lecture was Definition and types of Blastulae. Gastrulation: conducted Definition and Concept. Basic cell Gastrulation: movements in gastrulation: Epiboly, Definition and Concept. Basic cell Emboly, Convergence, Invagination, movements in gastrulation: Epiboly, Ingression & Involution with reference to Emboly, Convergence, Invagination, Ingression & Involution with reference to Sept 1 & Concept of Organizer: Primary, Secondary 2021 12 8 and Tertiary. Concept of Organizer: Primary, Secondary Sept 3 & Chick Embryology: and Tertiary. 2021 12 Nil 7.1 Structure of Hen's egg. 8

Oct 1& 2021 The plan should be prepared in duplicate.

Fundamentals of Developmental Biology:

Definition and scope. Concepts in Developmental Biology: Growth, Differentiation, Dedifferentiation, Cell determination, Cell communication, Morphogenesis, Induction and Regeneration. Theories of Developmental Biology:

Preformation, Pangenesis. Epigenesis. Axial

gradient. Germplasm.

Gametogenesis:

Spermatogenesis & Structure of sperm with respect to human. 3.2 Oogenesis & Structure of ovum with respect to human. 3.3 Types of eggs.

Fundamentals of Developmental Biology:

Definition and scope. Concepts in Developmental Biology: Growth, Differentiation, Dedifferentiation, Cell determination, Cell communication, Morphogenesis, Induction and Regeneration.

Theories of Developmental Biology:

Preformation, Pangenesis. Epigenesis. Axial gradient. Germplasm.

Gametogenesis:

Spermatogenesis & Structure of sperm with respect to human. 3.2 Oogenesis & Structure of ovum with respect to human. 3.3 Types of eggs.

Extra lecture was conducted

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Signature of Teacher

Signature of Head of Department

Signature of Faculty In-charge

Signature of the Principal PRINCIPAL

ARTS, SCIENCE AND COMMERCE COLLEGE INDAPUR-413106 DIST-PUNE Name of the teacher: Prof Jamdade S.P.

Semester: I

Year: 2021-22

			Par	t I : Teachi	ng Plan	aper: VI	Class: TYBSc		
1	2	3	4	5			Part II: Evaluation of Plan		
Sr.	Month	Week	No. of	No. of	6	7	8	9	10
No.			working days		Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	July 2021	2 & 4	11	8	1. Introduction, Scope and Branches of Parasitology:Definition: host, parasite, vector, commensalisms, mutualism and parasitism, Branches of parasitology.  2. Types of Parasites and Hosts: Ectoparasites, Endoparasites and its subtypes, Types of hosts - Intermediate, definitive, paratenic and reservoir.	8	1. Introduction, Scope and Branches of Parasitology:Definition: host, parasite, vector, commensalisms, mutualism and parasitism, Branches of parasitology.  2. Types of Parasites and Hosts: Ectoparasites, Endoparasites and its subtypes, Types of hosts - Intermediate, definitive, paratenic and reservoir.	Nil	
2	August 2021	1 &2			3.Host - Parasite relationship: Host specificity, Types of host specificity: structural specificity, physiological specificity and ecological specificity, Effects of parasite on host.  4. Study of Parasitic Protists: Entamoeba histolytica - Morphology, Life Cycle, Prevalence, Epidemiology,	9	3.Host - Parasite relationship: Host specificity, Types of host specificity: structural specificity, physiological specificity and ecological specificity, Effects of parasite on host.  4. Study of Parasitic Protists: Entamoeba histolytica - Morphology, Life Cycle, Prevalence, Epidemiology,	1	Extra lecture wa conducted
3	Sept	1&	12 8	i a	Pathogenicity, Diagnosis, Prophylaxis and Treatment, Plasmodium vivax - Morphology, Life Cycle, Prevalence,	8	Pathogenicity, Diagnosis, Prophylaxis and Treatment, Plasmodium vivax - Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment.	Nil	

					Diagnosis, Prophylaxis and Treatment.				
4	Sept 2021	3 & 4	12	8	5. Study of Parasitic worms: Ascaris lumbricoides - Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment, 5.3 Taenia solium (Tapeworm) - Study of Morphology, Life Cycle, Prevalence, Epidemiology,		5. Study of Parasitic worms: Ascaris lumbricoides - Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment, 5.3 Taenia solium (Tapeworm) - Study of Morphology, Life Cycle, Prevalence, Epidemiology,		
5	Oct 2021	1 & 2	12	8	Pathogenicity, Diagnosis, Prophylaxis and Treatment 6. Study of Parasitic Arthropoda: Morphology, pathogenicity and control measures of – Soft tick, Head louse, Rat flea, Bed bug	9	Pathogenicity, Diagnosis, Prophylaxis and Treatment 6. Study of Parasitic Arthropoda: Morphology, pathogenicity and control measures of – Soft tick, Head louse, Rat flea, Bed bug	1	Extra lecture was conducted

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Signature of Teacher

Signature of Head of Department

Dr. J. P. Sarwade

Department of Zoology,
Arís, Science & Commerce College,
Indapur, Dist. Pune - 4424 College,

Signature of Faculty In-charge

Science Faculty
Arts, Science & Commerce
College, Indapur, Dist. Pune

Signature of the Principal

PRINCIPAL

ARTS, SCIENCE AND

COMMERCE COLLEGE
INDAPUR-413106 DIST-PUNE

## Arts, Science and Commerce College, Indapur, Dist. Pune TEACHING AND EVALUATION PLAN

Name of the teacher:Prof. Mengade N.S.Year:2021-22Semester: VISubject:ZO 361 - Medical & Forensic ZoologyPaper: IClass:T Y B Sc

			Part	I: Teachin	g Plan	Part II : Evaluation of Plan					
1	2	3	4	5	6	7	8	9	10		
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks		
		3 &			1. Introduction to medical zoology and its importance 2. Medico-legal Autopsy: Death and its Causes- External examination of deceased body – Internal Examination - Determination of time since death and cause of death, Injuries – Classification - Medicolegal aspects of injuries, Postmortem changes - collection of postmortem changes - collection of postmortem.	8	1. Introduction to medical zoology and its importance 2. Medico-legal Autopsy: Death and its Causes- External examination of deceased body – Internal Examination - Determination of time since death and cause of death, Injuries – Classification - Medico-legal aspects of injuries, Post-mortem changes - collection of post-mortem samples and Preservation.	Nil			
	July 2022	4	9	8	mortem samples and Preservation.  3. Urine Analysis: Physical characteristics, abnormal constituents, renal failure, renal calculi, dialysis.  4. Non infectious Diseases: Causes,	0	3. Urine Analysis: Physical characteristics, abnormal constituents renal failure, renal calculi, dialysis. 4. Non infectious Diseases: Causes, Types, Symptoms, Complications, Diagnosis and Prevention of Diabetes		Extra lecture was		
	Aug2022	1& 2	12	8	Types, Symptoms, Complications, Diagnosis and Prevention of	10	(Type I and II), Hypertension,	1	condu		

					Diabetes (Type I and II), Hypertension, Hypotension, Obesity, Atherosclerosis, Myocardial Infraction.		Hypotension, Obesity, Atherosclerosis, Myocardial Infraction.		
3	Sept202	3 &	: 11	7	5. Infectious Diseases: Causes, Types, Symptoms, Complications, Diagnosis and Prevention of Tuberculosis and Hepatitis. 6. Introduction to Forensic Zoology: Definition, Scope and Application of Forensic Zoology, Forensic Laboratories in India, Basic Principles of Forensic Science with Examples	8	<ul> <li>5. Infectious Diseases: Causes, Types,</li> <li>Symptoms, Complications, Diagnosis</li> <li>and Prevention of Tuberculosis and</li> <li>Hepatitis.</li> <li>6. Introduction to Forensic Zoology:</li> <li>Definition, Scope and Application of</li> <li>Forensic Zoology, Forensic</li> <li>Laboratories in India, Basic Principles</li> <li>of Forensic Science with Examples</li> </ul>	Nil	
?	Sept202				7. Forensic Medicine: Introduction to Forensic Medicine: Definitions of Forensic Medicine, Medical Jurisprudence, Medical evidence documentations.  8. Forensic Analysis: Examination of Biological Materials: Examination of Hair, Fibres, Diatoms, plants materials, human tissues, Examination of Body Fluid: Blood, Semen and Saliva, Forensic Importance of Insects: Insects of forensic importance - indicators of time of death stages of insect development & comparative decomposition of human body - colonization - Evidence collection of insects — Territorial & Aquatic		7. Forensic Medicine: Introduction to Forensic Medicine: Definitions of Forensic Medicine, Medical Jurisprudence, Medical evidence documentations.  8. Forensic Analysis: Examination of Biological Materials: Examination of Hair, Fibres, Diatoms, plants materials, human tissues, Examination of Body Fluid: Blood, Semen and Saliva, Forensic Importance of Insects: Insects of forensic importance - indicators of time of death stages of insect development & comparative decomposition of human body - colonization - Evidence collection of		
	Sept 2022	1 & 2	11	8	Insects.	8	insects – Territorial & Aquatic Insects.	Nil	

5	Oct2022	3 &	12	8	8.4 DNA Fingerprint Technique and Examination of Biological Traces: Liquid blood, blood stains, & swabs, semen, Seminal stains, tissues, Bones, Hairs, Teeth, Saliva, Skeletal remains, Toxicological Investigations: Poisons – Definition, Forms of Poison – Physical, Chemical & Mechanical state. Introduction with examples of – Neurotoxic Poisons – Cerebral & Spinal, Cardiovascular Poisons, Asphyxiants, Miscellaneous poisons – Pesticides, Pharmaceutical drugs, Petroleum poisons, Food poisons, Radioactive		8.4 DNA Fingerprint Technique and Examination of Biological Traces: Liquid blood, blood stains, & swabs, semen, Seminal stains, tissues, Bones, Hairs, Teeth, Saliva, Skeletal remains, Toxicological Investigations: Poisons – Definition, Forms of Poison – Physical, Chemical & Mechanical state. Introduction with examples of – Neurotoxic Poisons – Cerebral & Spinal, Cardiovascular Poisons, Asphyxiants, Miscellaneous poisons – Pesticides, Pharmaceutical drugs, Petroleum poisons, Food poisons,		
	0012022		12	0	poisons.	8	Radioactive poisons.	Nil	

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Signature Of Teacher

Signature Of Head Of Department

Signature Of Faculty Incharge

Signature of Principal

PRINCIPAL

APTS S CHICE AND

Name of the teacher: Prof Gunvare K.D. Year: 2021-22 Semester: VI

Subject: ZO 362 - Animal Physiology Paper: II Class: TYBSc

			Pa	rt I : Teach	ing Plan		Part II: Evaluation of Plan		
1	2	3	4	5	6	7	8	9	10
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	July2022	3 & 4	9	8	1. Nutrition and digestion: Nutritional requirement & balanced diet, Digestion and absorption of carbohydrates, proteins and lipids, Vitamins - outline of fat soluble and water-soluble vitamins; Sources, deficiency and diseases.  2. Respiration: Mechanism of respiration: Regulation of ventilation in lungs, exchange of gases at respiratory surface	8	Nutrition and digestion: Nutritional requirement & balanced diet, Digestion and absorption of carbohydrates, proteins and lipids, Vitamins - outline of fat soluble and water-soluble vitamins; Sources, deficiency and diseases.     Respiration: Mechanism of respiration: Regulation of ventilation in lungs, exchange of gases at respiratory surface	Nil	
					Respiratory pigments in animals: Haemoglobin, Hemocyanin, Hemerythrin, Chlorocruorin, Transport of gases: O2 and CO2 transport. 3. Circulation: Blood: Definition and its constituents, functions of blood, Heart: Structure of human heart, Pace maker, Cardiac Cycle, Origin and conduction of	,	Respiratory pigments in animals: Haemoglobin, Hemocyanin, Hemerythrin, Chlorocruorin, Transport of gases: O2 and CO2 transport.  3. Circulation: Blood: Definition and its constituents, functions of blood, Heart: Structure of human heart, Pace maker, Cardiac Cycle, Origin and conduction of	INII	
	Aug2022	1&2	12	8	heart beat.	10	heart beat.	Nil	

3	Sept2022	3 & 4	11	7	4. Excretion: Structure of Uriniferous tubule, Mechanism of urine formation, Normal and abnormal constituents of urine, Elementary idea of dialysis.  5. Muscles: Structure of smooth, skeletal and cardiac muscles.	8	4. Excretion: Structure of Uriniferous tubule, Mechanism of urine formation, Normal and abnormal constituents of urine, Elementary idea of dialysis.  5. Muscles: Structure of smooth, skeletal and cardiac muscles.	1	Extra lecture was conducted
4	Sept 2022	1 &2	11	8	Mechanism of muscle contraction by Sliding filament theory. 6. Reproduction and Endocrine Glands: Physiology of male reproduction, hormonal control of spermatogenesis.	8	Mechanism of muscle contraction by Sliding filament theory. 6. Reproduction and Endocrine Glands: Physiology of male reproduction, hormonal control of spermatogenesis.	Nil	
5	Oct2022	3 & 4	12	8	Physiology of female reproduction, hormonal control of menstrual cycle, Structure and functions of pituitary, thyroid, parathyroid, pancreas and adrenal glands.	8	Physiology of female reproduction, hormonal control of menstrual cycle, Structure and functions of pituitary, thyroid, parathyroid, pancreas and adrenal glands.	Nil	

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Signature Of Teacher

Signature Of Head Of Department

Dr. J. P. Sarwade

M.Sc.,Ph.D.,FZSI

Department of Zoology,
Arts, Science & Commerce College

Signature Of Faculty Incharge

Incharge Science Faculty Arts, Science & Commerce College, Indapur, Dist. Pune Signature of Principal PRINCIPAL

ARTS, SCIENCE AND

Name of the teacher: Prof Dr Sarwade J.P. Year: 2021-22
Subject: Molecular Biology Paper: III Class: TYBSc

1	2	1 2	1	rt I : Teach	ing Plan	Part II : Evaluation of Plan					
Sr. N	Month	Week	4 N- C	5	6	7	8	0	40		
No.	violiti	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	10 Remarks		
	g2022 2022	3 & 4 1& 2	9 12	8	1. Nucleic Acids and Chromatin: Structure of RNA & DNA, Types of RNA, DNA as genetic material - evidences (Griffith's, Avery et al., Hershey and Chase experiment), RNA as genetic material - TMV 4, Structure of Chromatin, packaging of DNA, Heterochromatin, Euchromatin.  2. Central Dogma of Molecular Biology: DNA Replication - Semiconservative (Messelson and Stahl experiment), Basic mechanism of replication in prokaryotes and eukaryotes  Transcription - Basic mechanism of transcription in prokaryotes and eukaryotes, RNA polymerase enzyme in prokaryotes. RNA modifications and processing (splicing - mRNA, modifications at 3'and 5' end).	8	1. Nucleic Acids and Chromatin: Structure of RNA & DNA, Types of RNA, DNA as genetic material - evidences (Griffith's, Avery et al., Hershey and Chase experiment), RNA as genetic material - TMV 4, Structure of Chromatin, packaging of DNA, Heterochromatin, Euchromatin.  2. Central Dogma of Molecular Biology: DNA Replication - Semiconservative (Messelson and Stahl experiment), Basic mechanism of replication in prokaryotes and eukaryotes  Transcription - Basic mechanism of transcription in prokaryotes and eukaryotes, RNA polymerase enzyme in prokaryotes. RNA modifications and processing (splicing - mRNA, modifications)	Nil			

8	genetic code, Basic mechanism of Translation in E. coli and eukaryotic cells. 3. Lac operon: 4. DNA repair mechanism: Photo repair, dark repair, base excision repair. 5. Recombinant DNA Technology:	1	Extra lecture was conducted Extra lecture was conducted
		genetic code, properties of genetic code, properties of genetic code, Basic mechanism of Translation in E. coli and eukaryotic cells.  3. Lac operon:  4. DNA repair mechanism: Photo repair, dark repair, base excision repair.  5. Recombinant DNA Technology: Introduction, restriction enzymes, cloning vector, PCR (polymerase chain reaction)	Translation in E. coli and eukaryotic cells.  3. Lac operon: 4. DNA repair mechanism: Photo repair, dark repair, base excision repair.  5. Recombinant DNA Technology: Introduction, restriction enzymes, cloning vector, PCR (polymerase chain reaction)

2. One copy of the plan should be submitted at the beginning of the term after filling up columns 1 to 6.

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Signature Of Teacher

Signature Of Head Of Department

Signature Of Faculty Incharge

Signature of Principal

PRINCIPAL

ARTS, SCIENCE AND COMMERCE COLLEGE INDAPUR-413106 DIST-PUNE of the teacher:

Prof Dr. Salunkhe R.V.

Year: 2021-22

Semester: VI

et: Entomology

Paper: IV

Class: TYBSc

		Part	I : Teaching	g Plan	Part II : Evaluation of Plan						
2	3	4	5	6	7		8	9	10		
Month	Wee k	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged		Topics taught	Deviation in periods	Remarks		
	3 & 4	9	8	1. Fundamentals of Entomology: Definition and scope of Entomology, General Classification of Insects, General Characters of Insects. 2. Insect Morphology: Insect Integument and its derivatives, Insect Head, Head Orientations, Head articulations, Insect antennae and Mouth parts.	8	Definition General Character 2. Instance Integral Head, articul	damentals of Entomology: cion and scope of Entomology, al Classification of Insects, General cters of Insects. ect Morphology: Insect ment and its derivatives, Insect Head Orientations, Head ations, Insect antennae and				
Aug2022	1& 2	12	8	2.3 Insect Thorax, Insect Wing and modifications, Insect Leg and Modifications – a) Cursorial – Cockroach, b) Fossorial – Mole cricket, c) Saltorial – Grasshopper, d) Raptorial – Praying mantis, e) Pollen basket – Honey bee, Insect Abdomen, Genital and Pre – genital appendages of Grasshopper 3. Insect Anatomy (Grasshopper): Digestive System, Circulatory	10	2.3 Instance 2.3 I	ect Thorax, Insect Wing and cations, Insect Leg and cations – a) Cursorial – bach, b) Fossorial – Mole cricket, orial – Grasshopper, d) Raptorial – g mantis, e) Pollen basket – bee, Insect Abdomen, Genital e – genital appendages of apper ct Anatomy (Grasshopper): ive System, Circulatory System	Nil			

				System				
Sept2022	3 &	11	7	Nervous System, Respiratory System, Reproductive System. 4. Insect Ecology: Definition of Insect Ecology, Abiotic Factors (Photoperiod, Temperature and Humidity) and Biotic Factors (Food, Foraging and Nesting), Mimicry in insects with suitable examples.	8	Nervous System, Respiratory System, Reproductive System.  4. Insect Ecology: Definition of Insect Ecology, Abiotic Factors (Photoperiod, Temperature and Humidity) and Biotic Factors (Food, Foraging and Nesting), Mimicry in insects with suitable examples.	Nil	
Sept 2022	1 &2	11	8	5. Insect Metamorphosis: Definition, Types and examples of Metamorphosis. 6. Insects as social groups: Definition & significance of Eusociality, Intraspecific and Interspecific relationships among insects.	8	5. Insect Metamorphosis: Definition, Types and examples of Metamorphosis. 6. Insects as social groups: Definition & significance of Eusociality, Intraspecific and Interspecific relationships among insects.	Nil	
	3 &			Social organization in Wasps and Termites. 7. Economic Importance of Insects: Insects in Research, Insects in Medicines and Cosmetics,		Social organization in Wasps and Termites. 7. Economic Importance of Insects: Insects in Research, Insects in Medicines and Cosmetics, Insects as		
Oct2022	4	12	8	Insects as Vectors, Insects as food.	8	Vectors, Insects as food.	Nil	

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Signature Of Teacher

Signature Of Head Of Department

Dr. J. P. Sarwade

Aris, Science & Commerce College

Signature Of Faculty Incharge

ARTS, SCIENCE AND COMMERCE COLLEGE

-UR-413106 DIST-PUNE

Name of the teacher: Prof Dr. Salunkhe R.V.

Year: 2021-22

Semester: VI

Subject: ZO 365 - Techniques in Biology

Paper: V

Class: TYBSc

1	2	2			: Teaching	grian		Part II: Evaluation of Plan		
Sr.	Month	h Wee	I.	4 N6	5	6	7	8	9	
No.	Wilding	I Wee		No. of vorking days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Rei
Ju	ıly2022	3 & 4	9		3	1.Microscopy: Definitions - Resolving Power, Limit of Resolution and Magnification, Numerical Aperture. Basic principle of microscopes - Light, Fluorescence, Phase Contrast, Stereo Microscope, SEM and TEM. 2. Microtomy: Tissue fixation and Processing, Methods of tissue fixation: Chemical fixation and physical fixation, Procurement of tissue and importance of fixation of tissues, Dehydration, clearing, impregnation, embedding and block making.	8	1.Microscopy: Definitions - Resolving Power, Limit of Resolution and Magnification, Numerical Aperture. Basic principle of microscopes - Light, Fluorescence, Phase Contrast, Stereo Microscope, SEM and TEM. 2. Microtomy: Tissue fixation and Processing, Methods of tissue fixation: Chemical fixation and physical fixation, Procurement of tissue and importance of fixation of tissues, Dehydration, clearing, impregnation, embedding and block making.	Nil	
A.,	ng2022	1& 2	12	8		Types of microtomes, Section cutting: steps and precautions, common faults in section cutting, reasons & remedies, Mounting and spreading of ribbons, General procedure for staining of sections, Demonstration of Nucleic acid (Feulgen Reaction).	10	Types of microtomes, Section cutting: steps and precautions, common faults in section cutting, reasons & remedies, Mounting and spreading of ribbons, General procedure for staining of sections, Demonstration of Nucleic acid (Feulgen Reaction).  3. Haematological Techniques: Total count of RBCs, WBCs and Differential count of WBCs		E

					3. Haematological Techniques: Total count of RBCs, WBCs and Differential count of WBCs and their significance, Bleeding time, clotting time and their significance		and their significance, Bleeding time, clotting time and their significanc		
3	Sept2022	3 & 4	11	7	4. Immunological Techniques: Antigen-Antibody Interactions – Immunodiffusion, Principle & Working of ELISA, Raising Monoclonal Antibodies, Application of Immunological techniques in disease diagnosis. 5. Types of PCR & DNA Barcoding:	8	4. Immunological Techniques: Antigen- Antibody Interactions – Immunodiffusion, Principle & Working of ELISA, Raising Monoclonal Antibodies, Application of Immunological techniques in disease diagnosis.  5. Types of PCR & DNA Barcoding:	Nii	
4	Sept 2022	1 & 2	11	8	6. Methods in Biodiversity: Introduction to sampling and sample size, Biodiversity Indices - Species richness, Simpson Diversity Index, Shannon Diversity Index, Measuring Biodiversity- Quadrat sampling, Transect sampling, Insect survey - Active (sweep netting, aquatic nets) and Passive methodology (Pit fall traps, Light traps).	8	6. Methods in Biodiversity: Introduction to sampling and sample size, Biodiversity Indices - Species richness, Simpson Diversity Index, Shannon Diversity Index, Measuring Biodiversity- Quadrat sampling, Transect sampling, Insect survey - Active (sweep netting, aquatic nets) and Passive	Nil	
5	Oct2022	3 & 4	12	8	7. Instruments in Field Biology: Binoculars, GPS, Basic digital camera techniques: Camera lens - prime and kit lens, Aperture mode, Shutter mode, Megapixels, Telephoto lens, macro lens, Adapters for camera and microscopes, Mobile's camera. 8. Laboratory techniques:	8	methodology (Pit fall traps, Light traps).  7. Instruments in Field Biology: Binoculars, GPS, Basic digital camera techniques: Camera lens - prime and kit lens, Aperture mode, Shutter mode, Megapixels, Telephoto lens, macro lens, Adapters for camera and microscopes, Mobile's camera.  8. Laboratory techniques: Microphotographic techniques - CCD and CMOS camera, digital camera, Software for image analysis - Image	c	

	Microphotographic techniques - CCD and CMOS camera, digital camera, Software for image analysis - Image J and GIMP.	and GIMP.	

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Signature Of Faculty Incharge

Signature of Principal PRINCIPAL

ARTS SCIENCE AND COAMA

Name of the teacher:

Prof. Mengade N.S.

Year: 2021-22

Semester: VI

Subject: ZO 366 - Evolutionary Biology

Paper: VI

TYBSc Class:

		-		' DI		Part II: Evaluation of Plan		
I 2 Sr. Month	3 Week	4 No. of working days	5 No. of periods available	Topics to be taught	7 No. of periods engaged	8 Topics taught	Deviation in periods	Remar
	3 & 4	9	8	1. Introduction: Concept of Evolution, Origin of life, Origin of eukaryotic cell (Origin of mitochondria, plastids & symbionts).  2. Evidences of Evolution: Analogy and Homology, Embryological Evidences of Evolution, Evolutionary & Paleontological.	8	1. Introduction: Concept of Evolution, Origin of life, Origin of eukaryotic cell (Origin of mitochondria, plastids & symbionts).  2. Evidences of Evolution: Analogy and Homology, Embryological Evidences of Evolution, Evolutionary & Paleontological. Evidences	Nil*	

					3. Historical Review of Evolutionary Concept: Theories of Evolution, Lamarckism, Darwinism and Neo Darwinism.		3. Historical Review of Evolutionary Concept: Theories of Evolution, Lamarckism, Darwinism and Neo Darwinism.		
3	- Sept2022	3 & 4	11	7	Mutation Theory, Modern Synthetic theory. 4. Sources of Variations: Variation and Mutations 5. Isolation 6. Speciation: Types of speciation (Allopatric & Sympatric), Mechanism of speciation, Patterns of speciation.	8	Mutation Theory, Modern Synthetic theory. 4. Sources of Variations: Variation and Mutations 5. Isolation 6. Speciation: Types of speciation (Allopatric & Sympatric), Mechanism of speciation, Patterns of speciation.	Nil	
4	Sept 2022	1 &2	11	8	Factors influencing speciation. 7 Population Genetics: Hardy-Weinberg Law & Genetic Drift, Types of Natural Selection.	8	Factors influencing speciation. 7 Population Genetics: Hardy-Weinberg Law & Genetic Drift, Types of Natural Selection.	1	Extra lecture was conducted
5	Oct2022	3 & 4	12	8	8 Origin of Man: Evolution of Man (Evolution of anthropoids including man) - Kenyapithecus to Homo sapiens. 9 Zoogeographical Realms With reference to fauna 10 Extinctions: Extinction - An Overview.	8	8 Origin of Man: Evolution of Man (Evolution of anthropoids including man) - Kenyapithecus to Homo sapiens. 9 Zoogeographical Realms With reference to fauna 10 Extinctions: Extinction - An Overview.	1	Extra lecture was conducted

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Signature Of Teacher

Signature Of Head Of Department

Indapur, Dist. Pune - 413106

Signature Of Faculty Incharge

Signature of Principal

ARTS, SCIENCE AND COMMERCE COLLEGE INDAPUR-413106 DIST-PUNE Name of the teacher: Prof. Mengade N.S.

Year: 2021-22

Semester: VI

Subject: Environmental impact assessment

Paper: -

Class: TYBSc

			Pa	rt I: Teach	ning Plan		Part II : Evaluation of Plan		
Sr.	2 Month	3	4	5	6	7	8	9	10
No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remark
1		3 & 4	9	8	Environment: Definition, Divisions, Importance. 2. Pollution: Definition and types, Impact on wildlife, natural resources, development.	8	Environment: Definition, Divisions, Importance. 2. Pollution: Definition and types, Impact on wildlife, natural resources, development.	Nil	
2	Aug2022	1& 2	12		3. Sustainable development: Definition and need, Exploitation of natural resources, Concept of carrying capacity, Three pillars of Sustainability, UN 17 Sustainable Development Goals (SDGs).  4. Overview of Environmental Protection	10	3. Sustainable development: Definition and need, Exploitation of natural resources, Concept of carrying capacity, Three pillars of Sustainability, UN 17 Sustainable Development Goals (SDGs). 4. Overview of Environmental Protection	Nil	

					acts: The Air (Prevention and Control of Pollution) Act 1981.The Water (Prevention and Control of Pollution) Act 1974.		acts: The Air (Prevention and Control of Pollution) Act 1981.The Water (Prevention and Control of Pollution) Act 1974.		
3	Aug2022	3 & 4	11	7	The Environment Protection Act 1986, The National Green Tribunal Act 2010, Biological Diversity Act 2002. 5. Environmental Impact Assessment (EIA): Definition, need and importance of EIA, EIA notification 2006 - key elements, History and Evolution of EIA, Categories of Industries / establishments requiring EIA, Types of EIA - strategic EIA, regional EIA, sectoral EIA, project level EIA and life cycle assessment, Rapid and comprehensive EIA.	8	The Environment Protection Act 1986, The National Green Tribunal Act 2010, Biological Diversity Act 2002. 5. Environmental Impact Assessment (EIA): Definition, need and importance of EIA, EIA notification 2006 - key elements, History and Evolution of EIA, Categories of Industries / establishments requiring EIA, Types of EIA - strategic EIA, regional EIA, sectoral EIA, project level EIA and life cycle assessment, Rapid and comprehensive EIA.	Nil	
4	Sept2022	1 &2	11	8	6. EIA Process: Screening, Scoping and consideration of alternatives, Baseline data collection, Impact analysis, Mitigation, Reporting, Public hearing, Review of EIA, Decision-making, monitoring clearance conditions. 7. Stakeholders in EIA process: Project proponent, Environmental consultant. CPCB / MPCB, Public, EIA agency (IAA).	8	6. EIA Process: Screening, Scoping and consideration of alternatives, Baseline data collection, Impact analysis, Mitigation, Reporting, Public hearing, Review of EIA, Decision-making, monitoring clearance conditions.  7. Stakeholders in EIA process: Project proponent, Environmental consultant. CPCB / MPCB, Public, EIA agency (IAA).	Nil	
5	Oct2022	3 & 4	12	8	8. Overview of Scheme for Accreditation of EIA Consultant Organizations (NABET / QCI): Eligibility and benefits, EIA coordinator (EC), Functional area experts (FAEs), Functional area associate (FAA) and team members: Role, educational qualification, experience and functions.	8	8. Overview of Scheme for Accreditation of EIA Consultant Organizations (NABET / QCI): Eligibility and benefits, EIA coordinator (EC), Functional area experts (FAEs), Functional area associate (FAA) and team members: Role, educational qualification, experience and functions.	Nil	

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COMMERCE INDAPUR-413106 DIST-PUNE