Name of the teacher: Prof. Dr R.V Salunkhe Year: 2020-2021 Semester: I Subject: Pest management Paper: I Class: TYBSc Part I: Teaching Plan Part II: Evaluation of Plan 9 10 Sr. Month Week No. of No. of Topics to be taught No. of periods Topics taught Deviation in Remarks No. working periods engaged periods days available 1. Pest: Definition, Types of pests. 1. Pest: Definition, Types of pests, Types Types of damages caused by the pest. of damages caused by the pest. 2. Pest management using Regulatory 2. Pest management using Regulatory 282 July control: Quarantine, Eradication. Quarantine, Eradication, control: 11 2021 Control districts, "Crop-free" periods. Control districts, "Crop-free" periods. Nil 3. Pest management using Cultural 3. Pest management using Cultural control:Sanitation, Tillage, Crop control:Sanitation, Tillage, Crop rotation. rotation. Cropping systems. Cropping systems. 4. Pest management using Biological 4. Pest management using Biological control: control: Ecological considerations, Biological Ecological considerations, Biological control of insects, Biological control of control of insects, Biological control Extra plant disease, Biological control of lecture was of plant disease, Biological control of August conducted weeds. weeds. 1 8:2 11 8 2021 5. Biotechnology approaches in pest 5. Biotechnology approaches in pest management: Introduction. Recent management: Introduction. Recent advance in use of fungi and viruses. advance in use of fungi and viruses. Methodology in Biotechnology, Methodology in Biotechnology, Somaclonal variability, Concept of Somaclonal variability, Concept of Genetic engineering and Transgenic Genetic engineering and Transgenic 18 Nil Sept 12 2021 6. Integrated pest management (IPM): 6. Integrated pest management Principles and its components, (IPM): Principles and its Advantages and disadvantages, components, Advantages and 3 & Biological control - Predators, disadvantages, Biological control -Sept 12 2021

				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&	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).	0	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

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

Signature of Faculty In-charge

Signature of the Principal PRINCIPAL ARTS SE ENCE AND

COMMISSION

Name of the teacher: Prof Gunyare K.D. Semester: I Year: 2020-2021 Subject: Histology Paper: II Class: TYBSe Part I: Teaching Plan Part II: Evaluation of Plan Sr. Month Week No. of No. of 10 Topics to be taught No. of periods No. Topics taught working Deviation in periods Remarks engaged days available periods 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 2& July 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 Extra August reference to mucosa papillae and (V.s), Tongue (C. S.) with reference to lecture was 2021 1 &2 11 8 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 18 Sept Stomach (T. S.), Duodenum (T. S.), (T. S.), Duodenum (T. S.), Rectum (T. 2021 12 8 Rectum (T. S.), Liver (C. S.), 8 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 organs: Kidney (L. S.), 3 & organs: Kidney (L. S.), Juxtaglomerular Sept 2021 12 Juxtaglomerular complex. 8 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 Extra to Seminiferous Tubules and Cells of 18 Seminiferous Tubules and Cells of Oct lecture was Levdig, Ovary (C. S.). 2021 12 Leydig, Ovary (C. S.). conducted

	·	
8 Histology of Endocrine glands:Pituitary gland, Thyroid gland, Adrenal gland, Pancreas (C. S.) including both exocrine and endocrine components.	8 Histology of Endocrine glands:Pituitary gland, Thyroid gland, Adrenal gland, Pancreas (C. S.) including both exocrine and endocrine components.	
	glands:Pituitary gland, Thyroid gland, Adrenal gland, Pancreas (C. S.) including both exocrine and endocrine components.	glands:Pituitary gland, Thyroid glands:Pituitary gland, Thyroid gland, gland, Adrenal gland, Pancreas (C. S.) including both exocrine and both exocrine and endocrine

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

Arts, Science & Commerce Coll Indapur, Dist Pune - 413103

Signature of Faculty In-charge

Signature of the Principal PRINCIPAL

ARTS, SCIENCE AND COMMERCE COLLEGE Name of the teacher: Prof Vyavhare V Semester: I

Subject: Biological Chan

Year: 2020-2021

-	1 -	-	Par	t I : Teach	ing Plan	Paper: III	Class. TVDC		
-	2	3	4	5	D - 1811		Class: TYBSc		
Sr.	Month	Week	No. of	No. of	6	7	Part II : Evaluation of Plan		
No.	13.35		working days	periods available	Topics to be taught	No. of periods engaged	Topics taught	9 Deviation in	10 Remark
	July 2021	2&4	TI TI	available 8	Introduction of Biochemistry: Importance of Biochemistry in Life Sciences.     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.	engaged 8	Introduction of Biochemistry: Importance of Biochemistry in Life Sciences.     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.	periods	Remary
2	August 021	1 & 2			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.  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,	9	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.  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 1	Extra lecture wa conducted

					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.  5. Enzymes: Nomenclature, Types		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	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	1&2	12	8	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.	Extra lecture was

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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

Signature of Faculty In-charge

Signature of the Principal PRINCIPAL

ARTS SCIENCE AND COMMERCE LA LLEGE INDAPUR-413106 DIST-PUNE Name of the teacher: Prof. Dr Salunkhe R.V Semester: I

Subject: Genetics

1	2	1	Pa	rt I : Teach	ing Di		Year: 2020-2021		
Sr.		3	4	5	ing Plan Paper:	IV	CI.		
No.		Week	No. of	-			Class: TYBSc		The same of
			working	No. of	Toni-	7	Part II : Evaluation of PI		
				Per rous	Topics to be taught	N- C	8 S A S A S A S A S A S A S A S A S A S	an	
		-	days	available		No. of period	Topics tours	9	1 10
	100					engaged	Topics taught	Deviation in	10
	THE REAL PROPERTY.	1			1. Introduction to			periods	Remark
				1	Introduction to genetics: Classical and Modern concept of C.			beatons	1
		1	1 - 12 - 12		and Modern concept of Gene, Cistron, Muton, Recon				1000
	10000						Introduction to genetics: Classical and     Modern concept of the concept of		
		1					Modern concept of Gene, Cistron	1	
					2 Exceptions to Mendeline		Muton, Recon, Mendel's laws of		
		1			Inheritance:		Inheritance. Mendel's laws of	F	
	July	2&			dominance, Co-dominance, Multiple		2 Eventions to the		
	2021	4			alleles: Concept about Multiple		2 Exceptions to Mendelian Inheritance:		
		4	11	8	alleles: Concept, characteristics and		Dominance Co. J.		
					portance of multiple	8			
					Lethal alleles.		and an arrive of multiple		
					3. Gene Mutation: Definition, Types		Letnal alleles.	Nil	**
- 1					or indiauons; spontaneous indiana		3. Gene Mutation: Definition, Types of	3 10 300 00	
					somatic, gametic forward vous		mutations: spontaneous, induced,		
					Types of point mutation - deletion,		somatic gametic form		
					insertion substitution - deletion,		somatic, gametic, forward, reverse.	9,799755	
					insertion, substitution, transversion,		Types of point mutation - deletion,	1 3 3 1	
			1-11/1		transition, Mutagenic agents a) in		Tradition, Superintenan and	Marin In	
	August				adiation and ionising radiation by		Wutagenic agents -1	STORY I	
	2021	1 &2			analogs, alkylating and		or all ionising radiation by near	A STATE OF THE PARTY OF THE PAR	
+		1 00.2	11 1	8 11	Intercalating agents		analogs, alkylating and intercalating	Military Contract	Extra
				4	. Sex-determination: Introduction,		aRciità'	La contraction of	lecture was
	-			T	vpes of sex determination,		4. Sex-determination: Introduction,		conducted
				7	ypes of sex determination: -XX-XY,		Types of sex determination,		
				12	Z-ZW, XX-XO and Parthenogenesis,		Types of sex determination: -XX-XY, ZZ-		
4	Sept	1&		H	ypodiploidy, Gynandromorphism		Evv, AA-AO and Parthenogenesis		
			-	5.	Population Genetics:Basic		Hypodiploidy, Gynandromorphism.		
14	021	2 1	2 8	Co	ancents in population		o. Population Genetics:Basic Concents in		
					8 sincepes in population genetics:		population genetics: Mendelian	Nil .	

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

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Signature of Teacher

Signature of Head of Department

Dr. J. P. Sarwa

Department of Zoology, Arts, Science & Commerce College, Indapur, Dist. Pune - 413106 Signature of Faculty In-charge

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

ARTS S ENCE AND

wacher: Prof Jamdade S.P.

Year: 2020-202

Developmental Biology Part I: Teaching Plan Paper: V Class: TYBSc Month Week Sr. No. of Part II : Evaluation of Plan No. of No. Topics to be taught working periods 9 No. of periods 10 days Topics taught available Deviation in Remarks engaged 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. July 2& Spermatogenesis & Structure of sperm with 3.2 Oogenesis & Structure of ovum with respect to human. respect to human. 2021 4 3.2 Oogenesis & 11 8 3.3 Types of eggs. Structure of ovum with respect to human. 3.3 Types of eggs. Fertilization: Concept and types Nil Chemotaxis. Sperm penetration: Acrosome 100 Fertilization: Concept and types reaction, Capacitation & Decapacitation, Chemotaxis. Sperm penetration: Acrosome-Activation of ovum: Fertilization cone. reaction, Capacitation & Decapacitation, Activation of ovum: Fertilization cone. Prevention of polyspermy: Fast block & Slow Prevention of polyspermy: Fast block & Slow block. Significance of fertilization. August block. Significance of fertilization. Cleavage and Blastula: Planes and 2021 1 &2 11 Extra 8 Cleavage and Blastula: Planes and symmetry of cleavage. Types of cleavage, lecture was symmetry of cleavage. Types of cleavage. Definition and types of Blastulae. conducted Definition and types of Blastulae. Gastrulation: Gastrulation: Definition and Concept. Basic cell-Definition and Concept. Basic cellmovements in gastrulation: Epiboly, movements in gastrulation: Epiboly, Emboly, Convergence, Invagination, Emboly, Convergence, Invagination, Ingression & Involution with reference to Ingression & Involution with reference to Sept 18 Concept of Organizer: Primary, Secondary 2021 12 Concept of Organizer: Primary, Secondary 8 and Tertiary. and Tertiary. Sept 3 & Chick Embryology: Nil 2021 7.1 Structure of Hen's egg--

Oct 18 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 STORE AND COM

Name of the teacher: Prof Jamdade S.P. Semester: I

Subject: Parasitology

Year: 2020-2021

1	2	3	rar	t I : Teachi	ng Plan Pa	per: VI	Class: TYBSc		
Sr.	Month	Week	4	5	6		Part II : Evaluation of Plan		
No.		Week	No. of	No. of		7	e e e e e e e e e e e e e e e e e e e		
			working days	periods available	Topics to be taught	No. of periods engaged	Topics taught	9 Deviation in periods	10 Remarks
1	July 2021	2 & 4	11	8	Introduction, Scope and Branches of Parasitology:Definition: host, parasite, vector, commensalisms, mutualism and parasitism, Branches of parasitology.     Types of Parasites and Hosts: Ectoparasites, Endoparasites and its subtypes, Types of hosts - Intermediate, definitive, paratenic and reservoir.	8	Introduction, Scope and Branches of Parasitology:Definition: host, parasite, vector, commensalisms, mutualism and parasitism, Branches of parasitology.     Types of Parasites and Hosts: Ectoparasites, Endoparasites and its subtypes, Types of hosts - Intermediate, definitive, paratenic and reservoir.	Nil	
	August	1 &2	11	8	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 was conducted
2	Sept 2021	1 & 2	12		Pathogenicity, Diagnosis, Prophylaxis and Treatment , Plasmodium vivax - Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity,	8	Pathogenicity, Diagnosis, Prophylaxis and Treatment, Plasmodium vivax - Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment.	Nil	-

	1				Diagnosis, Prophylaxis and Treatment.	1			1
					5. Study of Parasitic worms: Ascaris lumbricoides - Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, D.		Study of Parasitic worms: Ascaris     lumbricoides - Study of Morphology,		
4	Sept 2021	3 &	12	8	Pathogenicity, Diagnosis, Prophylaxis and Treatment, 5.3 Taenia solium (Tapeworm) - Study of Morphology, Life Cycle, Prevalence, Epidemiology,		Pathogenicity, Diagnosis, Prophylaxis and Treatment, 5.3 Taenia solium (Tapeworm) - Study of Morphology, Life		
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	Cycle, Prevalence, Epidemiology, 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

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

Dr. J. P. Sarwade

Department of Zoology, Arts, Science & Commerce College, Indapur, Dist. Pune - 413105 Signature of Faculty In-charge

Science Faculty
And Science & Commerce
Congo Indapur, Dist. Pune

Signature of the Principal

PRINCIPAL

ARTS SCIENCE AND

INDAPUR-413106 DIST-PUNE

2100

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

Name of the teacher: Prof.Jamdade S.P. Year: 2020-21
Subject: ZO 361 - Medical & Forensic Zoology Paper: I Class: TYBSc

	•		Part	I : Teachin	ng Plan		Part II : Evaluation of Pla	in .	
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
	Nov2020	3 & 4	9	8	Introduction to medical zoology and its importance     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 samples and Preservation.	8	Introduction to medical zoology and its importance     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	
	Dec 2020	1.8.2			3. Urine Analysis: Physical characteristics, abnormal constituents, renal failure, renal calculi, dialysis.  4. Non infectious Diseases: Causes, Types, Symptoms, Complications, Diagnosis and Prevention of	10	Urine Analysis: Physical characteristics, abnormal constituents, renal failure, renal calculi, dialysis.     Non infectious Diseases: Causes, Types, Symptoms, Complications, Diagnosis and Prevention of Diabetes (Type I and II), Hypertension,	1	Extra lecture was conduct

					Diabetes (Type I and II), Hypertension, Hypotension, Obesity, Atherosclerosis, Myocardial Infraction.		Hypotension, Obesity, Atherosclerosis, Myocardial Infraction.		
3	Dec 2020	3 & 4	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	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	Nil	
	January				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		
	2021	1 &2	11	8	Insects.	8	insects – Territorial & Aquatic Insects.	Nil	

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8.4 DNA Fingerprint Technique and Examination of Biological Traces: 8.4 DNA Fingerprint Technique and Liquid blood, blood stains, & swabs, Examination of Biological Traces: semen, Seminal stains, tissues, Liquid blood, blood stains, & swabs, Bones, Hairs, Teeth, Saliva, Skeletal semen, Seminal stains, tissues, Bones, remains, Toxicological Hairs, Teeth, Saliva, Skeletal remains, Investigations: Poisons - Definition, Toxicological Investigations: Poisons -Forms of Poison - Physical, Chemical Definition, Forms of Poison - Physical, & Mechanical state, Introduction Chemical & Mechanical state. with examples of - Neurotoxic Introduction with examples of -Poisons - Cerebral & Spinal, Neurotoxic Poisons - Cerebral & Cardiovascular Poisons, Asphyxiants, Spinal, Cardiovascular Poisons, Miscellaneous poisons - Pesticides, Asphyxiants, Miscellaneous poisons -Pharmaceutical drugs, Petroleum Pesticides, Pharmaceutical drugs, January | 3 & poisons, Food poisons, Radioactive Petroleum poisons, Food poisons, 2021 poisons. Radioactive poisons. Nil

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Signature Of Teacher

Signature Of Head Of Department

Signature Of Faculty Incharge

Julies

Signature of Principal PRINCIPAL

ARTS SHAPE AND

Name of the teacher: Prof Gunvare K.D. Subject:

Year: 2020-21

Semester: VI

ZO 362 - Animal Physiology

Paper: II

Class: TYBSe

_	-		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	rking periods		No. of periods engaged	Topics taught	Deviation in periods	10 Remarks
	Nov2020	3&4	9	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	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	
	Dec				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	10	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		
	2020	1&2	12	8	heart beat.	10	heart beat.	Nil	

3	Dec 2020	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.  Mechanism of muscle contraction by	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	January 2021	1 &2	11	8	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	January 2021	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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Dlack

Signature Of Teacher

Signature Of Head Of Department

r. J. P. Sarwada

Department of Zoology, Science & Commerce Coffege, Indapur, Dist. Pune - 413108 Signature Of Faculty Incharge

Aris, Science & Commerce College, Indepur, Dist.Pune Signature of Principal
PRINCIPAL

ARTS STEMPE AND

Name of the teacher: Prof Jamdade S.P Year: 2020-21
Subject: Molecular Biology Paper: III Class: TYBSe

1	1 2	1 .	P	art I : Teach	ning Plan		Part II : Evaluation of Plan		
Si	Month	3	4	5	6	7	Part II : Evaluation of Plan		No. by
No		Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	10 Remarks
1	Nov2020	3 & 4	9	8	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.	8	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.	Nil	
	Dec 2020	1&2	12	8	Central Dogma of Molecular Biology:     DNA Replication - Semiconservative     (Messelson and Stahl experiment), Basic mechanism of replication in prokaryotes and eukaryotes	10	Central Dogma of Molecular Biology:     DNA Replication - Semiconservative     (Messelson and Stahl experiment), Basic mechanism of replication in prokaryotes and eukaryotes	Nil	
	Dec 2020	3 & 4	11		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	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).		

4	January 2021	1 & 2	11	8	Translation - 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.		Translation - 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,		Extra lecture was
5	January 2021	3 & 4	12	8	5. Recombinant DNA Technology: Introduction, restriction enzymes, cloning vector, PCR (polymerase chain reaction), DNA finger printing.	8	dark repair, base excision repair.  5. Recombinant DNA Technology: Introduction, restriction enzymes, cloning vector, PCR (polymerase chain reaction), DNA finger printing.	1	Extra lecture was conducted

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Signature Of Teacher

Signature Of Head Of Department

Dr. J. P. Sarwade

Department of Zoology, Arts, Science & Commerce College, Indapur, Dist. Pune - 413105 Signature Of Faculty Incharge

Science Faculty
And Commerce
Commerce
Commerce
Commerce
Commerce

Signature of Principal

PRINCIPAL

ARTO " ME AND

THAPUR-413106 DIST-PUNE

Name of the teacher:

Prof Dr. Salunkhe R.V.

Year: 2020-21

Semester: VI

Subject: Entomology

Paper: IV

Class: TYBSe

			Part	1 : Teaching	g Plan		Part II : Evaluation of Plan		
1	2	3	4	5	6	7	8	9	100
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
	Nov2020	3 & 4	9	8	Fundamentals of Entomology:     Definition and scope of     Entomology, General Classification     of Insects, General Characters of     Insects.     Insect Morphology: Insect     Integument and its derivatives,     Insect Head, Head Orientations,     Head articulations, Insect antennae     and Mouth parts.	8	Fundamentals of Entomology: Definition and scope of Entomology, General Classification of Insects, General Characters of Insects.     Insect Morphology: Insect Integument and its derivatives, Insect Head, Head Orientations, Head articulations, Insect antennae and Mouth parts.		
2	Dec 2020	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	10	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 System	Nil	

					3. Insect Anatomy (Grasshopper): Digestive System, Circulatory System				
3	Dec 2020	3 & 4	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.	Nii	
4	January 2021	1 #2	11	*	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	
5	January 2021	3 R	12	8	Social organization in Wasps and Termites. 7. Economic Importance of Insects: Insects in Research, Insects in Medicines and Cosmetics, Insects as Vectors, Insects as food.	R	Social organization in Wasps and Termites. 7. Economic Importance of Insects: Insects in Research, Insects in Medicines and Cosmetics, Insects as Vectors, Insects as food.	Nil	

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Signature Of Teacher

Signature Of Head Of Department

Head
Department of Zoology
Aris, Picience & Commerce College
Indopus, Dist. Puna - 413103

Signature Of Faculty Incharge

Science Faculty
Aith Science & Commerce
Bellings, Indeput, Dist Pune

Signature of Principal PRINCIPAL

ARTS S OF AND COMMANDER INDAPUR-413108 DIST-PUNE

Name of the teacher: Prof Prof Dr Salunkhe R.V.
Subject: 20 365 - Techniques in Biology

Year: 2020-21

Paper: V Class: TYBSc

Semester: VI

Part I: Teaching Plan Part II: Evaluation of Plan Sr. Month Week No. of No. of 9 Topics to be taught 10 No. of No. Topics taught working periods Deviation Remarks periods days available in engaged periods 1. Microscopy: Definitions - Resolving 1.Microscopy: Definitions - Resolving Power, Limit of Resolution and Power, Limit of Resolution and Magnification, Numerical Aperture. Basic Magnification, Numerical Aperture. Basic principle of microscopes - Light, principle of microscopes - Light, Fluorescence, Phase Contrast, Stereo Fluorescence, Phase Contrast, Stereo Microscope, SEM and TEM. Microscope, SEM and TEM. 2. Microtomy: Tissue fixation and 2. Microtomy: Tissue fixation and Processing. Methods of tissue fixation: Processing. Methods of tissue fixation: Chemical fixation and physical fixation, Chemical fixation and physical fixation, Procurement of tissue and importance of Procurement of tissue and importance of fixation of tissues, Dehydration, clearing, fixation of tissues, Dehydration, clearing, impregnation, embedding and block impregnation, embedding and block Nov2020 3&4 9 making. 8 making. Types of microtomes, Section cutting: Nil steps and precautions, common faults in Types of microtomes, Section cutting: section cutting, reasons & remedies, steps and precautions, common faults in Mounting and spreading of ribbons, section cutting, reasons & remedies, General procedure for staining of sections, Mounting and spreading of ribbons, Demonstration of Nucleic acid (Feulgen General procedure for staining of sections, Reaction). Demonstration of Nucleic acid (Feulgen 3. Haematological Techniques: Total Extra Reaction). Dec count of RBCs, WBCs and Differential lecture 3. Haematological Techniques: Total count. 1&2 12 count of WBCs and their significance, Was 10 of RBCs, WBCs and Differential count of conducted

				Bleeding time, clotting time and their significanc		WBCs and their significance, Bleeding time, clotting time and their significanc		
Dec 2020	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:  6. Methods in Riodinantibodies.	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:	Nil	
January 2021	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 methodology (Pit fall traps, Light traps).		
January 2021	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: Microphotographic techniques - CCD and CMOS camera, digital camera, Software for image analysis - Image J and GIMP.	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: Microphotographic techniques - CCD and CMOS camera, digital camera, Software for image analysis - Image J and GIMP.	Nil	

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Signature Of Teacher

Signature Of Head Of Department

Signature Of Faculty Incharge

Signature of Principal

Name of the teacher: Prof. Mengade N.S.

Year: 2020-21

Semester: VI

Subject: ZO 366 - Evolutionary Biology

Paper: VI

Class: TYBSe

			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	Remark
1	Nov2020	3&4	9	8	Introduction: Concept of Evolution,     Origin of life, Origin of eukaryotic cell     (Origin of mitochondria, plastids & symbionts).	8	Introduction: Concept of Evolution,     Origin of life, Origin of eukaryotic cell     (Origin of mitochondria, plastids & symbionts).	Nil	
2	Dec 2020	1&2	12	8	Evidences of Evolution: Analogy and Homology, Embryological Evidences of Evolution, Evolutionary & Paleontological. Evidences     Historical Review of Evolutionary Concept: Theories of Evolution, Lamarckism, Darwinism and Neo Darwinism.	10	2. Evidences of Evolution: Analogy and Homology, Embryological Evidences of Evolution, Evolutionary & Paleontological. Evidences 3. Historical Review of Evolutionary Concept: Theories of Evolution, Lamarckism, Darwinism and Neo Darwinism.	Nil	***
-	Dec	2.8.4		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	0.00

		January	1 & 2	11		Factors influencing speciation. 7 Population Genetics: Hardy-Weinberg Law & Genetic Drift, Types of Natural Selection.	Factors influencing speciation. 7 Population Genetics: Hardy-Weinberg Law & Genetic Drift, Types of Natural Selection.	1	Extra lecture was conducte
THE RESERVE	5	January 2021	3 & 4		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 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 conducte

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Signature Of Teacher

Signature Of Head Of Department

Head
Department of Zoology,
Indapur, Dist, Pure - 412105

Signature Of Faculty Incharge

Arts Science & Commerce College, Indapur, Dist Pune Signature of Principal

PRINCIPAL ARTS SC SASSE AND

AUAPUR-413106 DIST-PUNE

Name of the teacher:

Prof. Mohite P.I.

Year: 2020-21

Semester: VI

Subject: Environmental impact assessment

Paper: -

Class: TYBSe

	187		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	Remark
	Nov2020	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	Dec 2020	1&2	12	8	Sustainable development: Definition and need, Exploitation of natural resources, Concept of carrying capacity, Three pillars of Sustainability, UN 17 Sustainable Development Goals (SDGs).     Overview of Environmental Protection acts: The Air (Prevention and Control of Pollution) Act 1981. The Water (Prevention and Control of Pollution) Act 1974.	10	Sustainable development: Definition and need, Exploitation of natural resources, Concept of carrying capacity, Three pillars of Sustainability, UN 17 Sustainable Development Goals (SDGs).     Overview of Environmental Protection acts: The Air (Prevention and Control of Pollution) Act 1981. The Water (Prevention and Control of Pollution) Act 1974.	Nil	***
	Dec 2020	3 & 4		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,	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,	Nil	

		733			sectoral EIA, project level EIA and life cycle assessment, Rapid and comprehensive EIA.		sectoral EIA, project level EIA and life cycle assessment, Rapid and comprehensive EIA.		
4	January 2021	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.		
	January 2021	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	CPCB / MPCB, Public, EIA agency (IAA).  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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Signature Of Teacher

Signature Of Head Of Department

Signature Of Faculty Incharge

PHILLIP

Signature of Principal

PRINCIPAL

ARTS. S COL-

Sul	bject: Pes	t manage	ment						
				t I : Teach	ing Plan	Paper: I	Class: TYBSe		
1	2	3	4	5	ing rian		Part II : Evaluation of Plan		
Sr.	Month	Wee	k No. of	No. of	Topics to be taught	7	8	9	10
No.			working days	periods available		No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	July 2021	2 & 4	11	8	Pest: Definition, Types of pests, Types of damages caused by the pest.     Pest management using Regulatory control: Quarantine, Eradication, Control districts, "Crop-free" periods.	8	Pest: Definition, Types of pests, Types of damages caused by the pest.     Pest management using Regulatory control: Quarantine, Eradication, Control districts, "Crop-free" periods.	Nil	
	August 2021	1 &2	11	8	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.	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.	NII	Extra lecture was
	Sept 021	1 & 2	12		<ol> <li>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.</li> </ol>	8	Biotechnology approaches in pest management: Introduction. Recent advance in use of fungi and viruses. Methodology in Biotechnology, Somacional variability, Concept of Genetic engineering and Transgenic plants.	Nil	conducted
Se 20:		3 &	12 8		6. Integrated pest management (IPM): Principles and its components, Advantages and disadvantages, Biological control -	8	Principles and its components, Advantages and disadvantages, Biological control - Predators.	NII	