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

Name of the teacher: Prof .Jamdade S.P.	Year: 2020-21		Semester: III
Subject: Animal Diversity III	Paper: I	Class: SYBSc	

			Par	t I : Teachi	ng 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		No. of periods engaged	Topics taught	Deviation in periods	Rei
1	Aug 2020	3.8:4	0	O	1. Introduction to Phylum Chordata – (03) 1.1 Origin & Ancestry of Chordates. 1.2 Comparative account of fundamental characters of Chordates with Non Chordates. 1.3 Salient features of Phylum Chordata. 1.4 Classification of Phylum Chordata upto classes – Pisces, Amphibia, Reptilia, Aves, Mammalia. 2. Introduction to Group – Protochordata. (03) 2.1 Salient features of Protochordata. 2.2 Salient features of subphylumswith two example each - Names only.		1. Introduction to Phylum Chordata – (03) 1.1 Origin & Ancestry of Chordates. 1.2 Comparative account of fundamental characters of Chordates with Non Chordates. 1.3 Salient features of Phylum Chordata. 1.4 Classification of Phylum Chordata upto classes – Pisces, Amphibia, Reptilia, Aves, Mammalia. 2. Introduction to Group – Protochordata. (03) 2.1 Salient features of Protochordata. 2.2 Salient features of subphylumswith two example each - Names only.		
	Aug 2020	3&4	9	8	Hemichordata –		Hemichordata –	Nil	

2	Sept 2020	1&2	12	8	BalanoglossusandRhabdopleura, Urochordata - HerdmaniaandSalpa, Cephalochordata — Branchiostoma(Amphioxus) andAsymmetron. 3. Introduction to subphylum — Vertebrata (02) 3.1 Salient features of Vertebrata. 3.2 Introduction and General characters of sections with two examples - Names only. Agnatha— Petromyzon&Myxine&Gnathostomata— Frog&Labeo. 4. Introduction to Class — Pisces (04) 4.1		BalanoglossusandRhabdopleura, Urochordata - HerdmaniaandSalpa, Cephalochordata - Branchiostoma(Amphioxus) andAsymmetron. 3. Introduction to subphylum - Vertebrata (02) 3.1 Salient features of Vertebrata. 3.2 Introduction and General characters of sections with two examples - Names only. Agnatha— Petromyzon&Myxine&Gnathostomata— Frog&Labeo. 4. Introduction to Class - Pisces (04) 4.1	1	Ext
	Octo2020	3&4	11	7	Salient features of Class – Pisces. 4.2 Introductaionand Salient features of sections with two examples - Names only. Class – Chondrichthyes— Scoliodonand Chimaera&Osteichthyes—LabeoandCatla 4.3 Types of Scales in Fishes. 4.4 Types of Fins in Fishes. 5. Introduction to Class – Amphibia (03) 5.1 Salient features of Class – Amphibia. 5.2 Introduction to order – Apoda—Ichthyophis,Urodela—Salamandra(Salamander) and& Annura - Rana. 5.3 Parental care in Amphibia		Salient f eatures of Class – Pisces. 4.2 Introductaionand Salient features of sections with two examples - Names only. Class – Chondrichthyes– Scoliodonand Chimaera&Osteichthyes – LabeoandCatla 4.3 Types of Scales in Fishes. 4.4 Types of Fins in Fishes. 5. Introduction to Class – Amphibia (03) 5.1 Salient features of Class – Amphibia. 5.2 Introduction to order – Apoda–Ichthyophis,Urodela– Salamandra(Salamander) and& Annura - Rana. 5.3 Parental care in Amphibia	Nil	•
4	Octo2020	1 &2	11	8	6. Study of Scoliodon (15) Scoliodon – 6.1 - Systematic position, Geographical distribution, Habit, Habitat 01 6.2 - External characters 01 6.3 - Digestive System, Food and feeding mechanism. 02 6.4 - Respiratory System – Structure of Holobranch only. 02	8	6. Study of Scoliodon (15) Scoliodon – 6.1 - Systematic position, Geographical distribution, Habit, Habitat 01 6.2 - External characters 01 6.3 - Digestive System, Food and feeding mechanism. 02 6.4 - Respiratory System – Structure of Holobranch only. 02	Nil	

with the state of	Nil	
us S ırin	System – Brain only. 03 6.7 - logenital system & Female	System – Brain only. 03 6.7 - logenital system & Female tive System. 03 6.8- Yolk sac

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

3. 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

Signature Of Teacher

Signature Of Head Of Department

Dr. J. P. Sarwade M.Sc., Ph.D., FZSI

Arts, Science & Commerce College, Indapur, Dist. Pune - 413106

Signature Of Faculty Incharge

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

ARTS, SCIENCE AND COMMERCE COLLEGE INDAPUR-413106 DIST-PUNE Name of the teacher: Prof Gunvare K.D.

Subject: Applied Zoology I

Paper: II

Class: SYBSc

1		Pa	rt I : Teacl	ning Plan		1			
Sr. No.	2 Manth	3	4	5	6	_	Part II : Evaluation of Pla	n	
31. 110.	Month	Week	No. of	No. of	Topics to be taught	7 No. of	8	9	10
			working days	periods available		periods engaged	Topics taught	Deviation in	Remarks
	Aug 2020	3 & 4	9	8	Sericulture: 16 1.1 An introduction to Sericulture, Study of different types of silk moths, their distribution, Taxonomic position and varieties of silk produced in India: Mulberry, Tassar, Eri and Muga silk moths. 02 1.2 ExternalMorphology and life cycle of Bombyxmori. 02 1.3 Cultivation of mulberry: a) Varieties for cultivation, b) Rain fed and irrigated mulberry cultivation-Fertilizer schedule	8	Sericulture: 16 1.1 An introduction to Sericulture, Study of different types of silk moths, their distribution, Taxonomic position and varieties of silk produced in India: Mulberry, Tassar, Eri and Muga silk moths. 02 1.2 ExternalMorphology and life cycle of Bombyxmori. 02 1.3 Cultivation of mulberry: a) Varieties for cultivation, b) Rain fed and irrigated mulberry cultivation- Fertilizer schedule	periods	
	Sept2020	1&2	12	8	Pruning methods and leaf yield. 02 1.4 Harvesting of mulberry: a) Leaf plucking, b) Branch cutting, c) Whole	10	Pruning methods and leaf yield. 02 1.4 Harvesting of mulberry: a) Leaf plucking, b) Branch cutting, c) Whole shoot	Nil Nil	

					shoot cutting.1.5 Silk worm rearing: a) Varieties for rearing, b) Rearing house, c) Rearing techniques, d) Important diseases and pests. 03 1.6 Preparation of cocoons for marketing.		cutting.1.5 Silk worm rearing: a) Varieties for rearing, b) Rearing house, c) Rearing techniques, d) Important diseases and pests. 03 1.6 Preparation of cocoons for marketing.		
3	Octo2020	3 &	11	7	1.7 Post harvest processing of cocoons: a) Stiffling, sorting, storage, deflossing and riddling, b) Cocoon cooking, reeling equipment and rereeling, washing and polishing. 03 1.8 Biotechnological and	8	1.7 Post harvest processing of cocoons: a) Stiffling, sorting, storage, deflossing and riddling, b) Cocoon cooking, reeling equipment and rereeling, washing and polishing. 03 1.8 Biotechnological and	1	Extra Lecture was conducted
					Biotechnological and biomedical applications of silk. 02 2) Agricultural Pests and their control: 14 2.1 An introduction to Agricultural Pests, types of pests (agricultural, store grain, veterinary). 01 2.1 Major insect pests of agricultural importance (Marks of		Biotechnological and biomedical applications of silk. 02 2) Agricultural Pests and their control: 14 2.1 An introduction to Agricultural Pests, types of pests (agricultural, store grain, veterinary). 01 2.1 Major insect pests of agricultural importance (Marks of		Conducted
4	Octo2020	1 & 2	11	8	identification	8	identification	Nil	

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	Nov 2020	3 &		8	life cycle, nature of damage and control measures). 06 a) Jowar stem borer, b) Red cotton bug, c) Brinjal fruit borer, d) Mango stem borer, e) Blister beetle, f) Rice weevil,	8	life cycle, nature of damage and control measures). 06 a) Jowar stem borer, b) Red cotton bug, c) Brinjal fruit borer, d) Mango stem borer, e) Blister beetle, f) Rice weevil,	Nil	
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Signature Of Teacher

Signature Of Head Of Department

Department of Zoology, Arts, Science & Commerce College, Indapur, Dist. Pune - 413106

Signature Of Faculty Incharge

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Incharge Science Faculty Arts Science & Commerce College, Indapur, Dist. Pune Signature of 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 .Jamdade S.P. Year: 2020-21 Semester: VI
Subject: Animal Diversity IV Paper: I Class: SYBSc

			Par	t I : Teachin	ng Plan		Part II : Evaluation of P	lan	
1	2	3	4	5	6	7	8	9	10
Sr. No.		Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	Nov2020	3 & 4	9	8	1. Introduction to class – Reptilia (04) 1.1 Salient features of class Reptilia with one example (name only) – Chelone, Calotes. 1.2 Venomous and Non- venomous snakes – Cobra, Russell's viper, Rat snake, Grass snake. 1.3 Snake venom, symptoms, effect and cure of snake bite, first aid treatment of snakebite. 1.4 Desert adaptations in reptiles in brief.)	8	1. Introduction to class – Reptilia (04) 1.1 Salient features of class Reptilia with one example (name only) – Chelone, Calotes. 1.2 Venomous and Nonvenomous snakes – Cobra, Russell's viper, Rat snake, Grass snake. 1.3 Snake venom, symptoms, effect and cure of snake bite, first aid treatment of snakebite. 1.4 Desert adaptations in reptiles in brief.)	Nil	

2	Dec 2020	1&2	12	8	2. Introduction to class –Aves (05 2.1 Salient features of class Aves with two examples (names only) – Sparrow, Parrot. 2.2 Flight adaptations in birds. 2.3 Types of Beaks and feet in birds. 2.4 Migration in birds – Altitudinal, Latitudinal	10	2. Introduction to class –Aves (05 2.1 Salient features of class Aves with two examples (names only) – Sparrow, Parrot. 2.2 Flight adaptations in birds. 2.3 Types of Beaks and feet in birds. 2.4 Migration in birds – Altitudinal, Latitudinal	1	Extra lecture was conducted
3	Dec 2020	3 & 4	11	7	3. Introduction to class - Mammalia. (04) 3.1 Salient features of class Mammalia with two examples (names only) – Rat, Rabbit. 3.2 Egg laying mammals. 3.3 Aquatic adaptations in mammals. 3.4 Flying adaptations in mammals. 3.5 Cursorial and fossorial adaptation in mammals	8	3. Introduction to class - Mammalia. (04) 3.1 Salient features of class Mammalia with two examples (names only) – Rat, Rabbit. 3.2 Egg laying mammals. 3.3 Aquatic adaptations in mammals. 3.4 Flying adaptations in mammals. 3.5 Cursorial and fossorial adaptation in mammals	Nil	
4	January 2021	1 &2	11	8	4. Study of Rat (17) 4.1 Systematic position, habit and habitat. 01 4.2 External characters. 01 4.3 Digestive system, food and feeding. 02 4.4 Respiratory system. 02	8	4. Study of Rat (17) 4.1 Systematic position, habit and habitat. 01 4.2 External characters. 01 4.3 Digestive system, food and feeding. 02 4.4 Respiratory system. 02	Nil	

4.5 Blood vascular system – Structure of Heart. 02 4.6 Nervous system – Central Nervous system only. 03 4.7 Sense organs – Structure and functions of Eye & Ear. 03 4.8 Reproductive system. INTERNAL EXAM	Mil		
	Structure of Heart. 02 4.6 Nervous system – Central Nervous system only. 03 4.7 Sense organs – Structure and functions of Eye & Ear. 03	Structure of Heart. 02 4.6 Nervous system – Central Nervous system only. 03 4.7 Sense organs – Structure and functions of Eye & Ear. 03 4.8 Reproductive system.	Structure of Heart. 02 4.6 Nervous system – Central Nervous system only. 03 4.7 Sense organs – Structure and functions of Eye & Ear. 03 4.8 Reproductive system.

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Signature Of Faculty Incharge

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

PRINCIPAL ARTS, SCIENCE AND COMMERCE COLLEGE INDAPUR-413106 DIST-PUNE

Name of the teacher: Prof Gunvare K.D. Year: 2020-21 Semester: VI

Subject: Applied Zoology II Paper: II Class: SYBSc

			Pa	rt I : Teach	ing Plan		Part II : Evaluation of Plan		
1	2	3	4	5	6	7	8	9	10
Sr. No.		Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	Nov2020	3 & 4	9	8	Apiculture: 1.1 An introduction to Apiculture, Systematic position, Study of habit, habitat and nesting behaviour of Apisdorsata, Apisindica, Apis florae and Apismellifera. 1.2 Life cycle, Colony organization and Division of labour. 1.3 Bee behaviour and communication (Round Dance and Wag-Tail Dance).	8	. Apiculture: 1.1 An introduction to Apiculture, Systematic position, Study of habit, habitat and nesting behaviour of Apisdorsata, Apisindica, Apis florae and Apismellifera. 1.2 Life cycle, Colony organization and Division of labour. 1.3 Bee behaviour and communication (Round Dance and Wag-Tail Dance).		
	Dec				1.4 Bee keeping equipments: a) Bee box (Langstroth type), b) Honey extractor, c) Smoker, d) Bee-veil, e) Gloves, f) Hive tool, g) Bee Brush, h) Queen excluder.	0	1.4 Bee keeping equipments: a) Bee box (Langstroth type), b) Honey extractor, c) Smoker, d) Bee-veil, e) Gloves, f) Hive tool, g) Bee Brush, h) Queen excluder.	Nil	
2	2020	1&2	12	8		10		Nil	

Dec 2020	3 & 4	11	7	1.5 Bee keeping and seasonal management. 1.6 Bee products (composition and uses): a) Honey, b) Wax, c) Bee Venom, d) Propolis, e) Royal jelly, f) Pollen. 1.7 Diseases and enemies of Bees: a) Bee diseases - Protozoan (Nosema), Bacterial (American foul brood), Viral (Sac brood), Fungal (Chalk brood). b) Bee pests - Wax moth (Greater and Lesser), Wax beetle. c) Bee predators – Green Bee eater, King crow, Wasp, Lizard. 1.8 Bee pollination and management of bee colonies for pollination.	8	1.5 Bee keeping and seasonal management. 1.6 Bee products (composition and uses): a) Honey, b) Wax, c) Bee Venom, d) Propolis, e) Royal jelly, f) Pollen. 1.7 Diseases and enemies of Bees: a) Bee diseases - Protozoan (Nosema), Bacterial (American foul brood), Viral (Sac brood), Fungal (Chalk brood). b) Bee pests - Wax moth (Greater and Lesser), Wax beetle. c) Bee predators – Green Bee eater, King crow, Wasp, Lizard. 1.8 Bee pollination and management of bee colonies for pollination.		Extra lecture was
Januar 4 2021	1 &2	11	8	 2. Fisheries: 2.2 An introduction to fisheries and its types (in brief): Freshwater fisheries, Marine fisheries, Brackish water fisheries. 2.3 Habit, habitat and culture methods of following freshwater forms: a) Rohu (<i>Labeo rohita</i>), b) Catla (<i>Catla catla</i>), c) Mrigal (<i>Cirrhinus mrigala</i>). 2.3 Harvesting methods of following marine form a) Harpodon, b) Mackerel, c) Pearl oyster. 		2. Fisheries: 2.2 An introduction to fisheries and its types (in brief): Freshwater fisheries, Marine fisheries, Brackish water fisheries. 2.3 Habit, habitat and culture methods of following freshwater forms: a) Rohu (<i>Labeo rohita</i>), b) Catla (<i>Catla catla</i>), c) Mrigal (<i>Cirrhinus mrigala</i>). 2.3 Harvesting methods of following marine form a) Harpodon, b) Mackerel,	1	conducted

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					2.4 Crafts and Gears in Indian Fishery: 02 a) Crafts – Catamaran, Machwa, Dinghi s:		2.4 Crafts and Gears in Indian Fishery: 02 a) Crafts – Catamaran, Machwa, Dingh s:		
					b) Gears - Gill net, Dol net, Rampani		b) Gears - Gill net, Dol net, Rampani		
					net, Cast net.		net, Cast net.		
					Fishery byproducts:		Fishery byproducts:		
					a) Fish meal,		a) Fish meal,		
					b) Fish flour,		b) Fish flour,		
					c) Fish Liver oil,		c) Fish Liver oil,		
					d) Fish manure,		d) Fish manure,		
					e) Fish fin soup.		e) Fish fin soup.		
					Fish preservation technique:		Fish preservation technique:		
					a) Chilling,		a) Chilling,		
					b) Freezing,		b) Freezing,		
					c) Salting,		c) Salting,		
	January				d) Drying,		d) Drying,		
5	2021	3 & 4	12	8	e) Canning.	8	e) Canning.	Nil	

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Department of Zoology.

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