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

Name of the teacher: Prof.Jamdade S.P.	Year: 2019-20		Somoston, III
Subject: Animal Diversity III	Paper: I	Class: SYBSc	Semester: III

1			Par	t I : Teachi	ng Plan		Part II : Evaluation of I	N1	
1	2	3	4	5	6	7		lan	
Sr. No.	Month	Week	No. of working days	No. of periods available		No. of periods engaged	Topics taught	9 Deviation in	10 Re
	Aug 2019	3&4	9		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		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	periods	

2	Sept 2019		12	8	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. Hemichordata – 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 — Piscos (04) 4.4	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. Hemichordata — 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.		Extr:
	Octo2019	3&4	11	7	4. Introduction to Class – Pisces (04) 4.1 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–	Frog&Labeo. 4. Introduction to Class – Pisces (04) 4.1 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—	Nil	was

					Salamandra(Salamander) and& Annura - Rana. 5.3 Parental care in Amphibia		Salamandra(Salamander) and& Annura - Rana. 5.3 Parental care in Amphibia		
4	Octo2019	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	NEI .	
		3 &			6.5- External & Internal Structure of heart, Working of heart. 02 6.6 - Nervous System – Brain only. 03 6.7 - Male urinogenital system & Female reproductive System. 03 6.8- Yolk sac	,	6.5- External & Internal Structure of heart, Working of heart. 02 6.6 - Nervous System – Brain only. 03 6.7 - Male urinogenital system & Female reproductive System. 03 6.8- Yolk sac	Nil	
5	Nov 2019	4	12	8	placenta.	8	placenta.	Nil	

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.,FZS

Department of Zoology,
Arts, Science & Commerce College,
Indanus Dist Pune - 413100

Signature Of Faculty Incharge

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

Signature of Principa

PRINCIPAL

ARTS, SCIENCE AND

INDAPUR-413106 DIST-PUNE

Name of the teacher: Prof Gunvare K.D.

Subject: Applied Zoology I

Paper: II

Class: SYBSc

1	2		rt I : Teach	ing Plan			Part II: Evaluation of Plan		
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	7 No. of periods engaged	Tare H: Evaluation of Plan 8 Topics taught	9 Deviation in periods	10 Remarks
	Aug 2019	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	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		

					cultivation- Fertilizer schedule				
	•				Pruning methods and leaf yield. 02 1.4 Harvesting of mulberry: a) Leaf plucking, b) Branch cutting, c) Whole 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.	10	Pruning methods and leaf yield. 02 1.4 Harvesting of mulberry: a) Leaf plucking, b) Branch cutting, c) Whole 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.	Nil	
	Sept2019 Octo2019	3 & 4	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
4	Octo2019	1 &2	11	8	Biotechnological and biomedical applications of silk. 02 2) Agricultural Pests	8	Biotechnological and biomedical applications of silk. 02 2) Agricultural Pests and	Nil	

					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 identification		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 identification		
5	Nov 2019	3 & 4	12	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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Dr. J. P. Sarwade

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

Signature Of Faculty Incharge

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

PRINCIPAL ARTS, SCIENCE AND CONMERCE 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:2019-20Semester: VISubject:Animal Diversity IVPaper: IClass:S Y B Sc

			Part	I : Teaching	g Plan		Part II : Evaluation of P	lan	
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
	Nov2019	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 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.)	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.)		

2	Dec 2019	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 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	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 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	1	Extra lecture was conducted
3	2019	4	11	7		8	adaptation in mammals		
4	January 2020	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	

	Feb	3 &			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.		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.		
5	2020	4	12	8	INTERNAL EXAM	8	INTERNAL EXAM	Nil	

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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.

Subject: Applied Zoology II

Paper: II

Class: SYBSc

			Pa	rt I: Teach	ing Plan	1	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	Nov2019	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).		. 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).		
					1.4 Bee keeping equipments:	8		Nil	
	Dec				a) Bee box (Langstroth type), b) Honey extractor, c) Smoker, d) Bee-veil, e) Gloves, f) Hive tool, g) Bee Brush, h) Queen excluder.		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.		
2	2019	1&2	12	8		10		Nil	

				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.		1.5 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.	
Dec 3 2019	3 & 4	11	7	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	1.7 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
January 4 2020	1 &2	11	8	 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. 	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.	conducted

				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, Dinghi s:		
Feb 2020	3 & 4	12	8	b) Gears – Gill net, Dol net, Rampani net, Cast net. Fishery byproducts: a) Fish meal, b) Fish flour, c) Fish Liver oil, d) Fish manure, e) Fish fin soup. Fish preservation technique: a) Chilling, b) Freezing, c) Salting, d) Drying, e) Canning.	8	b) Gears – Gill net, Dol net, Rampani net, Cast net. Fishery byproducts: a) Fish meal, b) Fish flour, c) Fish Liver oil, d) Fish manure, e) Fish fin soup. Fish preservation technique: a) Chilling, b) Freezing, c) Salting, d) Drying, e) Canning.	Nil	

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