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

Name of the teacher:Prof .Jamdade S.P.Year:2022-23Semester: IIISubject:Animal Diversity IIIPaper: IClass:S Y B Sc

			Par	t I : Teachi	ng 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		No. of periods engaged	Topics taught	Deviation in periods	Remarl		
	A.v. 2022	3&4	9	8	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. Hemichordata –		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. Hemichordata –	Nil			
	Aug 2022		,	0	BalanoglossusandRhabdopleura, Urochordata - HerdmaniaandSalpa, Cephalochordata –		BalanoglossusandRhabdopleura, Urochordata - HerdmaniaandSalpa, Cephalochordata –		Extra le		
	Sept 2022	1&2	12	8	Branchiostoma(Amphioxus)		Branchiostoma(Amphioxus)	1	was cor		

					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 Salient features of Class – Pisces. 4.2 Introductaionand Salient features of sections with two examples - Names only. Class – Chondrichthyes—		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 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 –	•	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 –	•	
	Octo2022	3&4	11	7	Apoda–Ichthyophis,Urodela– Salamandra(Salamander) and& Annura - Rana. 5.3 Parental care in Amphibia		Amphibia. 5.2 Introduction to order – Apoda–Ichthyophis, Urodela– Salamandra (Salamander) and & Annura - Rana. 5.3 Parental care in Amphibia	Niil	
					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		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	Nil	
4	Octo2022	1 & 2	11	8	of Holobranch only. 02	8	of Holobranch only. 02	Nil	
		3 &			6.5- External & Internal Structure of heart, Working of heart. 02 6.6 - Nervous System – Brain only. 03 6.7 -		6.5- External & Internal Structure of heart, Working of heart. 02 6.6 - Nervous System – Brain only. 03 6.7 -		
5	Nov 2022	4	12	8	Male urinogenital system & Female	8	Male urinogenital system & Female	Nil	

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		reproductive System. 03 6.8- Yolk sac placenta.	reproductive System. 03 6.8- Yolk sac placenta.	

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 every week.

Signature Of Teacher

Signature Of Head Of Department

PRINCE

Signature Of Faculty Incharge
Science Faculty
Arts, Science & Commerce
College, Indapur, Dist. Puna

Signature of Principal PRINCIPAL

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

Dr. J. P. Sarwade

Head M.Sc.,Ph.D.,FZSI

Name of the teacher: Prof. Bandpatte A.Year: 2022-23Semester:IIISubject: Applied Zoology IPaper: IIClass: S Y B Sc

		Pa	rt I : Teach	ning 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 &			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		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		
1	Aug 2022	4	9	8	schedule	8	schedule	Nil	
					Pruning methods and leaf		Pruning methods and leaf		
					yield. 02 1.4 Harvesting of		yield. 02 1.4 Harvesting of		
					mulberry: a) Leaf plucking,		mulberry: a) Leaf plucking, b)		
2	Cont2022	10-2	12	8	b) Branch cutting, c) Whole shoot cutting.1.5 Silk worm		Branch cutting, c) Whole shoot		
2	Sept2022	1& 2	12	8	Shoot cutting.1.5 Silk Worm	10	cutting.1.5 Silk worm rearing:	Nil	

3	Octo2022	3 & 4	11	7	rearing: a) Varieties for rearing, b) Rearing house, c) Rearing techniques, d) Important diseases and pests. 03 1.6 Preparation of cocoons for marketing. 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 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 identification).		a) Varieties for rearing, b) Rearing house, c) Rearing techniques, d) Important diseases and pests. 03 1.6 Preparation of cocoons for marketing. 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 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	1	Extra Lecture was conducted
				0	identification	8	identification	Nil	

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5	Nov 2022	3 & 4	12		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,		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

Velley 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

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

Name of the teacher: Prof. Jamdade S.P. Year: 2022-23

Subject: Animal Diversity IV

Paper: I

Class: SYBSc

1	2	3	4	t I : Teachir 5	ng Plan	Part II: Evaluation			
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	9 Deviation in	10 Remarks
1 1	Nov2022	3 & 4	9	8	1. Introduction to class – Reptilia (04) 1.1 Salient features of class Reptilia with one example (name only) – Chelone, Calotes.	8	1. Introduction to class – Reptilia (04) 1.1 Salient features of class Reptilia with one example (name only) – Chelone, Calotes.	periods	

					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.)		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 2022	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 lecti was condi
2	Dec 2022	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.	* 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.	Nil	

					3.5 Cursorial and fossorial adaptation in mammals		3.5 Cursorial and fossorial adaptation in mammals		
4	January 2023	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		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		
5	January 2023	3 & 4	12	8	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	8	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.	Nil	
	1. The plan s	should be	prepared in	dunlianta		8	INTERNAL EXAM	Nil	

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Signature Of Head Of Department

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

Signature Of Faculty Incharge

Incharge

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

PRINCIPAL

ARTS, SCIENCE AND COMMERCE COLLEGE INDAPUR-413106 DIST-PUNE Name of the teacher: Prof Bandpatte A.

Year: 2022-23

Semester: VI

Subject: Applied Zoology II

Paper: II

Class: SYBSc

1	2	3	4	rt I : Teach		-	Part I	I : Evaluatio	on of Plan
Sr. No.	Month	Week	4	No. of periods available	. 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	7 No. of periods engaged	Topics taught . 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	I : Evaluation 9 Deviation in periods	n of Plan 10 Remarks
	ec	4	9*	8	Wag-Tail Dance). 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, n) Queen excluder.	8	communication (Round Dance and Wag-Tail Dance). 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	

						15 D. I.		
				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 2022	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.	0	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
Januar 2023	y 1 &2	11		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>).	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:	1	was conducted

					2.3 Harvesting methods of following marine form a) Harpodon, b) Mackerel, c) Pearl oyster. 2.4 Crafts and Gears in Indian Fishery: 02 a) Crafts – Catamaran, Machwa, Dinghi s:		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. 2.4 Crafts and Gears in Indian Fishery: 02 a) Crafts – Catamaran, Machwa, Dinghi s:		
5	January 2023	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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