Rajgurunagar
Tal. Khed,
Dist. Pune.

K.T.S.P. Mandals

Sahebraoji Buttepatil Mahavidylaya,Rajgurunagar

Department of Zoology

Teaching Plan

Academic Year 2024-2025

S. Y. B. Sc.

Course Title: Animal Diversity - IV **Semester II**

Course Code: ZO – 241

Sr. No.	Month	Title	Teacher Name
1.	Jan	Introduction to class –Reptilia 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.	PPS
2.	Jan & Feb	Introduction to class –Aves 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	PPS
3.	Feb	3. Introduction to class - Mammalia. 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	PPS

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4.	**March**	4. Study of Rat 4.1 Systematic position, habit and habitat. 4.2 External characters. 4.3 Digestive system, food and feeding. 4.4 Respiratory system. 4.5 Blood vascular system – Structure of Heart. 4.6 Nervous system – Central Nervous system only. 4.7 Sense organs – Structure and functions of Eye & Ear. 4.8 Reproductive system	**PPS**

Prof. P.P.Shindekar

K.T.S.P. MANDAL'S SAHEBRAOJI BUTTEPATIL MAHAVIDYALAYA ★ Rajgurunagar Tal. Khed, Dist. Pune.

K.T.S.P. Mandals

Sahebraoji Buttepatil Mahavidylaya,Rajgurunagar

Department of Zoology

Teaching Plan

Academic Year 2024-2025

S. Y. B. Sc.

Course Title - Applied Zoology II **Course Code - ZO-242**

Month	Title	Teacher Name
Jan	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 : **a)** Bee box (Langstroth type), **b)** Honey extractor, **c)** Smoker, **d)** Bee-veil, **e)** Gloves, **f)** Hive tool, **g)** Bee Brush, **h)** Queen excluder	PPS
Jan and Feb	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 - GreenBee eater, King crow, Wasp, Lizard. 1.8 Bee pollination and management of bee colonies for pollination.	PPS
Feb	2. Fisheries : 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 (*Labeo rohita*) , **b)** Catla (*Catla catla*) , **c)** Mrigal (*Cirrhinus mrigala*). 2.3 Harvesting methods of following marine forms: **a)** *Harpodon*, **b)** Mackerel, **c)** Pearl oyster.	PPS
March	2.4 Crafts and Gears in Indian Fishery: **a)** Crafts – Catamaran, Machwa, Dinghi. **b)** Gears – Gill net, Dol net, Rampani net, Cast net. 2.5 Fishery byproducts: **a)** Fish meal, **b)** Fish flour, **c)** Fish Liver oil, **d)** Fish manure, **e)** Fish fin soup. 2.6Fish preservation technique: **a)** Chilling, **b)** Freezing, **c)** Salting, **d)** Drying, **e)** Canning	PPS

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