S.M.MANDALI'S SAHEBRAOJI BUTTEPATIL MAHAVIDYALAYA
Rajgurunagar
Tal. Khed,
Dist. Pune.

S.Y.B. Sc. (Zoology)
Course Title: Animal Diversity - III
Course Code: ZO – 231

Sr. No	Month	Topics	Teacher
1	July	**1. Introduction to Phylum Chordata –** 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.	PPS
2	Aug	**2. Introduction to Group – Protochordata.** 2.1 Salient features of Protochordata. 2.2 Salient features of subphylumswith two example each - Names only. Hemichordata – *Balanoglossus*and*Rhabdopleura*, Urochordata - *Herdmania*and*Salpa*, Cephalochordata –*Branchiostoma*(Amphioxus) and*Asymmetron*.	PPS
3	Aug	**3. Introduction to subphylum – Vertebrata** 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*	PPS
4	Sept	**4. Introduction to Class – Pisces** 4.1 Salient features of Class – Pisces. 4.2 Introduction and Salient features of sections with two examples - Names only. Class – Chondrichthyes–*Scoliodon* and *Chimaera* & Osteichthyes – *Labeo* and *Catla* 4.3 Types of Scales in Fishes. 4.4 Types of Fins in Fishes.	PPS
5	Sept	**5. Introduction to Class – Amphibia** 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.	PPS

6	Oct	**6. Study of *Scoliodon*** *Scoliodon* – 6.1 - Systematic position, Geographical distribution, Habit, Habitat 6.2 - External characters 6.3 - Digestive System, Food and feeding mechanism. 6.4 - Respiratory System – Structure of Holobranch only. 6.5- External & Internal Structure of heart, Working of heart. 6.6 - Nervous System – Brain only. 03 6.7 - Male urinogenital system & Female reproductive System. 6.8- Yolk sac placenta.	PPS

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S. Y. B. Sc. Semester I
Course Title - Applied Zoology I
Course Code - ZO - 232

K.T.S. MANDAL'S SAMEBHAOJI BUTTEPATIL MAHAVIDYALAYA
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Month	Topics	Teacher Name
July	**1) Sericulture:** 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. 1.2 External Morphology and life cycle of *Bombyx mori.*	**PPS**
Aug	1.3 Cultivation of mulberry : **a)** Varieties for cultivation, **b)** Rain fed and irrigated mulberry cultivation- Fertilizer schedule, Pruning methods and leaf yield. 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.	**PPS**
Aug & Sept	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. 1.8 Biotechnological and biomedical applications of silk.	**PPS**
Sept	**2) Agricultural Pests and their control:** 2.1 An introduction to Agricultural Pests, types of pests (agricultural, store grain, veterinary). 2.1 Major insect pests of agricultural importance (Marks of identification, life cycle, nature of damage and control measures). **a)** Jowar stem borer, **b)** Red cotton bug, **c)** Brinjal fruit borer, **d)** Mango stem borer, **e)** Blister beetle, **f)** Rice weevil, **g)** Pulse beetle, **h)** Tick.	**PPS**

Oct	2.3 Non insect pests: Rats, Crabs, Snails, and Squirrels 2.4 Pest control practices in brief: Cultural control, Physical control, Mechanical control, Chemical control, Biological control, Pheromonal control, Autocidal control and Concept of IPM in brief. 2.5 Plant protection appliances: Shoulder type Rotary duster, Knapsack sprayer, Cynogas Pump.	PPS

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