ST. JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS) VISAKHAPATNAM

III SEMESTER   **ZOOLOGY** TIME:2HRS/WEEK

Z-Ma1-3551(2) **ANIMAL DIVERISTY-II BIOLOGY OF CHORDATES** MARKS:50

w.e.f 2024-2025 (23AK Batch) **PRACTICAL** **SYLLABUS**

# LEARNING OBJECTIVES:

* To understand the importance of preservation of museum specimens
* To identify animals based on special identifying characters
* To understand different organ systems through demo or virtual dissections
* To maintain a neat, labeled record of identified museum specimens

# LEARNING OUTCOMES: By the end of the course, students will be able to

CO 1: Identify the vertebrates according to their taxonomic position.

CO 2: Outline the distinctive features and classification of vertebrates.

CO 3: Reinforce the basic laboratory skills including microscopy and careful observation.

CO 4: Discuss the importance of preservation of museum specimens.

CO 5: Identify and discuss the structure and functional complexity of vertebrates in relation to their ecological habitats and behavioural patterns.

# SYLLABUS:

1. **Protochordata**: *Herdmania, Amphioxus, Amphioxus* T.S through pharynx.
2. **Cyclostomes**: *Petromyzon and Myxine.*
3. **Pisces**: *Pristis, Torpedo, Hippocampus, Exocoetus, Echeneis, Labeo, Catla, Clarius, Channa, Anguilla*
4. **Amphibia**: *Ichthyophis, Amblystoma, Axolotl larva, Hyla,*
5. **Reptilia**: *Draco, Chamaeleon, Uromastix, Testudo, Trionyx, Russels viper, Naja,*

Krait, *Hydrophis, Crocodile.*

1. **Aves**: *Psittacula, Eudynamis, Bubo, Alcedo.*
2. **Mammalia**: *Ornithorhynchus*, *Pteropus, Funambulus.*
3. **Dissections**-As per UGC guidelines
4. *Scoliodon IX* and X, Cranial nerves
5. *Scoliodon* Brain
6. Scoliodon-Digestive system
7. Mounting of fish scales

Note: 1. Dissections are to be demonstrated only by the faculty or virtual.

2.Laboratory Record work shall be submitted at the time of practical examination.

# RFERENCE WEB LINKS:

* [https://nt7-mhe-complex-assets.mheducation.com/nt7-mhe-complex-assets/Upload-](https://nt7-mhe-complex-assets.mheducation.com/nt7-mhe-complex-assets/Upload-20190715/InspireScience6-8CA/LS15/index.html) [20190715/InspireScience6-8CA/LS15/index.html](https://nt7-mhe-complex-assets.mheducation.com/nt7-mhe-complex-assets/Upload-20190715/InspireScience6-8CA/LS15/index.html)
* <https://themammallab.com/>
* <http://abacus.bates.edu/acad/depts/biobook/LabConCh.htm>
* <https://virtualzoology.wordpress.com/scoliodon/>
* <http://www.zoologyresources.com/uploadfiles/books/dc64b77d8769325515d17c945e461b45.pdf>

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