II SEMESTER

Course No.: 3 Taxonomy and Functional Anatomy of Fin Fish and Shellfish

credits:3

Course Outcomes

- 1. Acquire knowledge on the Classification of major groups of Finfish and Shell fish
- 2. Students will be familiar with the general characters of Finfish and Shell fish
- 3. Gain knowledge on the structure and functions of Digestive system
- 4. Understand the difference between the brain of fish and prawn
- 5. Acquire knowledge on the functional anatomy of fish and prawn

Unit I: General characters & Classification of Cultivable fin fish and shell fish

- 1.1General Characters of Crustacea
- 1.2Classification of Crustacean: Major groups up to orders and their important characters.
- 1.3General Characters of fishes
- 1.4Classification of Fishes: Major groups up to subclass and their important characters.

Unit 2: Digestive and Respiratory systems of Fish and shell fish

- 2.1: Digestive system of fish
- 2.2Respiratory system of fish
- 2.3 Digestive system of Prawn
- 2.4 Respiratory system of prawn

Unit 3: Circulatory systems of Fish and shell fish

- 3.1 Cardiovascular system: Structure of heart in fishes
- 3.2 Blood vascular system in prawn

Unit 4: Nervous system of Fish and shell fish

- 4.1 Nervous system in fish: Structure and functions of Brain
- 4.2 Central Nervous system in prawn.

Unit 5 Reproductive system of Fish and shell fish

- 5.1 Urino-genital system in fishes
- 5.2 Reproductive system in prawn

II SEMESTER

Course No.: 3 Taxonomy and Functional Anatomy of Fin Fish and Shellfish

Credits:1

- 1. Study of mouth parts in herbivorous and carnivorous fishes
- 2. Comparative study of digestive system of herbivorous and carnivorous fishes
- 3. Demonstration of brain of fish
- 4. Demonstration of cranial nerves of fish
- 5. Demonstration of Nervous system of prawn
- 6. Exposure of gills of prawn
- 7. Exposure of gills of fish

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- 5. Lovell J. 1989. Nutrition and Feeding of Fish. Van Nostrand Reinhold, New York.
- 6. Moyle PB and Joseph J. Cech Jr. 2004. *Fishes: An Introduction to Ichthyology*. 5th Ed. Prentice Hall.
- 7. Nikolsky GV. 1963. Ecology of Fishes, Academic Press.
- 8. Norman JR and Greenwood PH. 1975. A History of Fishes, Halsted Press.
- 9. Potts GW and Wootten RJ. 1984. Fish Reproduction: Strategies and Tactics, Academic Press.
