

**6<sup>th</sup> SEMESTER**  
**VETERINARY TECHNOLOGY**  
(ORNAMENTAL FISHERIES)  
**SKILL ENHANCEMENT COURSE (SEC)**

**ORF620S ORNAMENTAL FISHERIES - III (FABRICATION OF AQUARIA & DISEASE MANAGEMENT)**

**CREDITS: THEORY: 2, PRACTICAL: 2**  
**MAX MARKS: THEORY: 30, PRACTICAL: 30**  
**MIN MARKS: THEORY: 12, PRACTICAL: 12**

***Learning Objective:** To make the students aware of the vast potentials involved in ornamental fish farming and trading besides making them learn the diseases in fishes and other constraints in their culturing.*

***Learning outcomes:** After completing this course the learners will be able to learn the scientific method of setting an aquarium and to learn the culture breeding and marketing techniques of common indigenous ornamental fishes,*

**THEORY**

**UNIT I: FABRICATION & MAINTENANCE OF AQUARIA**

Fabrication of glass aquaria, leak proof jointing of glass sheets. Importance and maintenance of aquarium hardware like heater, lighting, filter, aerator, thermometer, thermostat, decorations, aquarium plants, etc. Principles of a balanced aquarium. Setting up of a freshwater aquarium. Procedure for adding the fishes in aquarium. Maintenance of an aquarium tank.

**UNIT II: DISEASE MANAGEMENT**

Introduction to ornamental fish diseases. Definition and Categories of diseases, Parasitic, Fungal and Viral Diseases, Bacterial, Protozoan and Metazoan Diseases. Control measures of common ornamental fish diseases.

**PRACTICALS**

Fabrication of glass aquaria, cutting of glass, grinding and fixing of glass sheets, leak proof jointing of glass sheets. Working of heater, lighting, filter, aerator, thermometer, thermostat, decorations, aquarium plants, etc. Lighting and aeration. Set up of aquarium, cleaning and maintenance of aquarium. Identification of common diseases of ornamental fishes and their control.

**BOOKS RECOMMENDED**

1. Tropical Aquarium Fish: A Step-By-Step Guide to Setting Up and Maintaining a Freshwater or Marine Aquarium By John Dawes
2. Aquarium Maintenance Notebook By Placate Trent
3. Aquarium Management By Amita Saxena
4. Home Aquarium and Ornamental Fish Culture By Arumugam
5. Nutrition & Feeding in Fish By C. B. Cowey, A. M. Mackie & J G Bell
6. Fish Nutrition in practice By S J Kaushik & P Luquet
7. Handbook on ingredients for Aquaculture Feeds By J W Hertrampf, F P Pascual & S L Ong
8. Ornamental Fish Culture and Aquarium Management By A. D. Dholakia