

COURSE CODE	COURSE TITLE	C	H	I	E	T
17U4ZSM3	ORNAMENTAL FISH CULTURE	2	2	25	75	100

OBJECTIVES

- ❖ To learn the basic principles and techniques of Ornamental fish culture.
- ❖ To study the features of popular ornamental fishes.
- ❖ To get an exposure on setting up and maintenance of aquarium.

LEARNING OUTCOME

1. Acquire knowledge on principles, designing and maintenance of an aquarium.
2. Motivation for entrepreneurship through ornamental fish culture.

UNIT-I

Ornamental fish culture: Introduction - Indian and world scenario - Advantages of ornamental fish culture - Setting up home aquarium and marine aquarium - Aquarium tank: types (Metal framed glass tank, All glasses tank, Bonded glass tank, Acrylic tank, Laminated glass tank) - Materials required for the construction of tanks - Features of Aquaponics.

UNIT-II

Water quality management - Heating – Lighting – Aeration - Filtering (mechanical, chemical and biological) - Aquarium equipments - Aquarium plants-hydroponics.

UNIT –III

Salient features of Goldfish, Fighter fish, Molly fish, Parrot fish Butterfly fish, clownfish, Marine angelfish,

UNIT-IV

Food & Feeding: Nutritional requirements for fish, live feed, artificial feed, composition of ideal fish feed - Parasites & Diseases: Fish louse, Ligula, Fin rot disease, Carp pox and Velvet disease.

UNIT-V

Ornamental fish Transportation and packing : Methods (open and closed packing), starvation and sedation, factors to be considered for packaging (Density, temperature, dissolved gases, salinity, anaesthetics).

TEXT BOOKS

1. Tharadevi, C.S. and K.V. Jayashree. 2009. Home Aquarium, Saras Publications, Nagercoil.
2. Arumugam, N. 2010. Aquaculture. Saras Publications, Nagercoil.

REFERENCE BOOKS

1. Shukla, J.P. 2012. Fish and Fisheries. Rastogi Publications. New Delhi.
2. Zade, S.B., C.J. Khune, S.R. Sitre and R.V. Tijare. 2011. Principles of Aquaculture. Himalaya Publishing House. Mumbai.
3. Srivastava, C.B.L. 2006. Aquarium-Fish Keeping. Kitab Mahal, Allahabad.