

GUJARAT UNIVERSITY
EFFECTIVE FROM JUNE-2023
SKILL ENHANCEMENT COURSE -THEORY
B.Sc. SEMESTER – II ZOOLOGY – 126
HOME AQUARIUM MANAGEMENT
SEC-C-AQU-126 (2 CREDIT)

OBJECTIVE:

The course provides the key skills needed to set up and operate the aquarium business. This course also fulfills the requirements in order to maintain fish health, quality water chemistry and nutritional requirements, aquarium plants and ornamental plants. The practical section of the course, taught to build new aquarium house, on how to keep fish and aquatic animals as pets, which fish can live together and those that just don't get along. Students will also learn how to look after them including health care and managing water quality.

OUTCOMES:

Identify fish morphology, their general classification and specific characters. Get general information on common ornamental fishes. Setup aquaria and their management. Identify and manage fish disease. To encourage the students to develop self-employment.

Unit –I (A): Aquarium Tank and setting

Equipments and requirements for home aquarium, Types and selection of tank,
Tank setting and position, Aquascaping, Precautions for an ideal aquarium.

(B) Aquarium Fishes

Characters of Aquarium fishes, Community Aquarium fishes, Ornamental fishes.

Practicals

(A): Aquarium Tank and setting

Requirements for home aquarium

Types and selection of tank

Tank setting and position

Aquascaping

Precautions for an ideal aquarium.

(B) Aquarium Fishes

Characters of Aquarium fishes

Community Aquarium fishes

Ornamental fishes

Unit- II (A) Aquarium Plants

Introduction to Aquarium plants, Importance of Aquarium plants,

Types of Aquarium plants, Arrangement of Aquarium plants.

(B) Aquarium Fish Diseases

Types of aquarium fish diseases

Common aquarium fish diseases (Bacterial disease- Dropsy, Fungal disease- Branchiomycosis, Viral- Viral Haemorrhagic Septicaemia (VHS), Parasitic- Velvet disease)

Cause, symptoms of aquarium fish diseases, Treatment for fish diseases.

Practicals

(A) Aquarium Plants

Introduction to Aquarium plants

Importance of Aquarium plants

Types of Aquarium plants

Arrangement of Aquarium plants

(B) Aquarium Fish Diseases

Introduction of aquarium diseases

Types of aquarium fish diseases

Causes and symptoms of aquarium diseases

Treatment of fish diseases

References:

1. Ornamental Aquarium Fish of India by Tekriwal, Kishori Lal; Rao, Andrew Arunava; Dawes; John.
2. Aquarium Management by Amit Saxena.
3. Indian Ornamental Fishes by Heiko Bleher by BNHS.
4. Fresh Water Fish Disease in Uttarakhand by Rakesh Verma and Sharma Priyanka.
5. Textbook of Vertebrate by S. S. Lal.