

**COURSE TITLE: ORNAMENTAL FISHERIES AND AQUARIA
DESIGN**

COURSE CODE: FIS 505

COURSE UNITS: 2

**COURSE LECTURERS: 1. DR. S. O. OBASA
2. DR. ODULATE, D. O.**

OBJECTIVES:

At the end of the course, students are expected to :

- * be familiar with different types of aquaria.
- * identify the accessories and know how they operate.
- * Identify locally available materials for construction and their procurement.
- * To be able to design, construct and maintain aquaria.

1. Importance of aquaria.
2. Types of aquaria:
 - Freshwater aquaria
 - Brackishwater aquaria
 - Salt water aquaria
3. Design of aquaria:
 - Types of aquarium design
 - Materials for aquarium construction
(emphasis on locally available materials).
 - Procurement of construction materials

4. Aquarium accessories:

- Function(s) of various accessories
- Ornamental plants and their types
(emphasis on locally available ones)
- Ornamental fishes and their types
(emphasis on locally available plants)
- Ornamental Fish Aquaculture (OFA)
- Procurement of the accessories.

5. - Filtration systems

- Types of filtration systems in aquarium
- Types of filter

6. Aeration systems in aquarium
7. Lighting system in aquarium
8. Water quality:
 - Physical and chemical parameters of water
 - Nitrogen cycle
 - Keeping the balance
9. Aquarium upholstery and stands:

For further reading:

1. Fish and Fisheries of Northern Nigeria by Reed, W. et., al.