COURSE TITLE: ORNAMENTAL FISHERIES AND AQUARIA DESIGN

COURSE CODE: FIS 505

COURSE UNITS: 2

COURSE LECTURERS: 1. DR. S. O. OBASA
2. DR. ODULULATE, 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.