

COURSE CODE:	FIS505
COURSE TITLE:	Ornamental Fisheries and Aquaria Design
NUMBER OF UNITS:	2 Units
COURSE DURATION:	Two hours per week

COURSE DETAILS:

Course Coordinator:	Dr. D.O. Odulate
Email:	oduolaniyi@yahoo.com
Office Location:	Room D203, COLERM
Other Lecturers:	Dr. S.O. Obasa

COURSE CONTENT:

Ornamental fish, breeding, management and nutrition, design and maintenance of various aquaria. Accessories, aquaria plants.

COURSE REQUIREMENTS:

This is a compulsory course for all students in Department of Aquaculture & Fisheries Management. In view of this, students are expected to participate in all the course activities and have minimum of 75% attendance to be eligible to write the final examination.

READING LIST:

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

LECTURE NOTES

ORNAMENTAL FISHERIES AND AQUARIA DESIGN

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: