



ALAGAPPA UNIVERSITY

(A State University Accredited with A+ Grade by NAAC (CGPA : 3.64)
in the Third Cycle and Graded as Category - I University by MHRD - UGC)

Karaikudi - 630 003, Tamil Nadu, India.



Value Added Course on **MARINE ORNAMENTAL FISH CULTURE**

Course code: 548907

Duration: 30 hours

Session:

January-March 2023

Course Coordinator:

Dr. RM. ANBUCHEZHIAN

COURSE CONTENT

*MARINE ORNAMENTAL FISH RESOURCES

*MARINE AQUARIUM SETUP

*LIVE FEED CULTURE

*BROOD STOCK MANAGEMENT

*WATER QUALITY AND HEALTH MANAGEMENT

LEARNING OUTCOMES

*STUDENTS WILL BE ABLE TO

1. IDENTIFY MARINE ORNAMENTAL FISHES

2. DESIGN AND SETUP MARINE AQUARIUM

3. CULTURE, BREEDING AND MARKETING



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SYLLABUS
ALAGAPPA UNIVERSITY
DEPARTMENT OF OCEANOGRAPHY AND COASTAL AREA STUDIES
COURSE: Value-Added Course on MARINE ORNAMENTAL FISH CULTURE

S.No.	CONTENT	HOURS
MODULE I	Marine ornamental fish culture – Scope and importance – Global and National status – Capture and cultivable marine ornamental fishery recourses.	5
MODULE II	Marine ornamental fishes – Taxonomy, biology, diversity and habitats – Major marine ornamental fish resources of India – Method of live fish collection – Breeding of marine ornamental fishes – Commercially important marine ornamental fishes – Gobies, Trigger Fish, Blennies, Angel Fishes, Clown Fishes, Damsels, Butterfly Fish. Reef aquarium – Other ornamental organisms – Sea Stars, Sea Anemones, worms, lobsters, shrimps, octopus.	5
MODULE III	Settings up of aquarium – Engineering Aspects of marine aquarium – Construction of marine aquarium – Introduction to marine aquarium accessories – Aerator, Filter, Thermostat – General account of public marine aquarium.	5
MODULE IV	Live feed culture – Mass scale production – Larval feeding – Water quality and Health management – Common bacterial, protozoan, fungal, viral and parasitic diseases – Symptoms, causes and treatment.	5
MODULE V	Application of genetics and biotechnology – Techniques in genetic improvement – Genetic manipulation and production of new strains and hybrids.	5
MODULE VI	Marketing – Present status – National and international trading for marine ornamental fishes – High value marine ornamental fishes – Demand and future prospects – Live feed market potential – MPEDA – Regulations for export and import – Government subsidies.	5