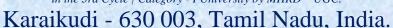


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ALAGAPPA UNIVERSITY

State University | A+ Grade by NAAC (CGPA: 3.64) in the 3rd Cycle | Category - I University by MHRD – UGC.





Department of Oceanography and Coastal Area Studies

Course: Hatchery Management

Course Code: 548906 Duration: 30 Hours



Course Co-ordinator: Dr.J.Siva



LEARNING OUTCOMES:

- ↓ Students acquire in depth knowledge in Hatchery Management.
- Seed production of finfish, shellfish and Crustacean.
- Students are able to work in the hatchery after completion of this course.



COURSE CONTENT:

- General introduction
- Hatchery Management
- Brood stock Maintenance
- Seed Production
 - Crustacean
 - Shellfish
 - Fin Fishes



Dr.J.Siva

Department of oceanography and coastal area studies School of Marine Sciences Alagappa University Thondi Campus, Thondi – 623409.

SYLLABUS

ALAGAPPA UNIVERSITY

School of Marine Sciences

Department of Oceanography and Coastal Area Studies

COURSE: VALUE ADDED COURSE ON HATCHERY MANAGEMENT

S.No	CONTENT	30 Hours
Module - I	Introduction: History, current international and national status of finfish, shrimp, crab and Shellfish hatchery.	5
Module - II	Hatchery Design and Construction: Site selection – design – construction – equipments - water filtering systems - layout and design of hatchery sections.	5
Module - III	Brooders Selection and maintenance: Biology and life cycle of cultivable finfish and Shellfishes. Brooders selection, quarantine - brood stock – spawning - larval rearing – post larval and nursery management.	5
Module - IV	Crustacean seed production: Nursery technology - Prawn - Shrimp - Crab and lobster - brood stock collection - stocking - selective breeding - induced breeding - water quality - feed and health management. Shrimp captive brood stock development - SPF seed production.	5
Module - V	Molluscan seed production: Mussel, oyster, abalone and scallop - brood stocks collection, rearing – induced breeding – water quality, feed and health management.	5
Module – VI	Finfish seed production: Fresh water fish – Carp – Catla- Mrigal – Tilapia - Coldwater fish - Trout. Coastal and marine fish – milkfish – mullets – sea bass, grouper – cobia – pompano - brood stock development, induced breeding - larval rearing – water quality – feed and health management.	5

Recommended Books

- S., Mohapatra, B., &Routray, P. (2008). *Textbook of Breeding and Hatchery Management of Carps*. Narendra Publishing House.
- ➤ Kannupandi, T., Soundarapandiyan, P., &Anantharaman, P. (2002). *Hatchery manual for Penaeus monodon fabricus*. ENVIS Centre, CAS in Marine Biology, Annamalai University.
- ➤ Thomas, P. C., Rath, S.,&Mohapatra, K. D. (2013). *Breeding and Seed Production of Finfish and Shellfish*. Daya Publishing House.