



# Three-month Certificate Course on Freshwater Aquaculture & Hatchery Management



Organized by  
FWFF, Balabhadrapuram, Kakinada Centre, ICAR-CIFE

01 January to 30 March, 2026

## Introduction

The three-month certificate program offered by FWFF, Balabhadrapuram, Kakinada Centre, ICAR-CIFE, aims to equip aspiring aquaculture professionals with practical and advanced skills in fish farming. The program focuses on promoting entrepreneurship in aquaculture by helping participants gain hands-on knowledge and to start and manage fish farming ventures.

## Program Overview

This program provides comprehensive training in aquaculture practices, starting from pond preparation and fertilization to the culture of commercially important species such as IMCs, Magur, Singhi, Murrel and Roopchand. Participants will gain hands-on experience in breeding techniques, including broodstock selection, spawning methods, seed collection, and quality assessment. The course also covers feed preparation and management, addressing the nutritional requirements of different species, assessment of feed ingredients, and feed formulation and production. In addition, participants will be introduced to advanced aquaculture technologies, including Bio-floc culture systems and Aquaponics, equipping them with practical knowledge and skills relevant to modern aquaculture practices.

## Outcomes of this Program

To prepare and manage fish ponds, identify and culture key commercial species, and carry out effective breeding practices including broodstock selection, spawning, and seed quality assessment. Trainees will also gain practical skills in feed preparation, formulation, and management, as well as hands-on knowledge of advanced aquaculture technologies such as Bio-floc culture and Aquaponics. These skills will equip them to apply modern, sustainable, and productive aquaculture practices confidently.

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[shamna@cife.edu.in](mailto:shamna@cife.edu.in)

**Registration  
Fee  
Rs. 10,000/-  
Only**

*Food and Accommodation  
charges should be bared  
by the trainees*

### Program Director

Dr. N.P.Sahu

### Program Co-ordinators

Dr. Shrinivas Jahageerdar

Dr. Aparna Chaudhari

### Course Directors

Dr. Shamna N

Mrs. Shobha Rawat

### Course Co-ordinator

Mr. Rajeev



**Duration of the course:** 120 Days

S.I. No.	Courses	Credit
1	Basic & Advanced Aquaculture System	1+1
2	Breeding & Hatchery Technology for Carps & Catfish	1+1
3	Feed & Feeding Management	1+1
4	Therapeutics & Health Management in Freshwater Aquaculture	1+1
5	Water & Soil Quality Management	1+1
6	Ornamental Fish Culture & Livefeed Culture	1+1
7	Good Laboratory Practices	0+1
8	Policies, Regulations and Aquapreneurship Promotion	0+1

### **Course Contents (Theory & Practical)**

#### **1. Culture of Commercial Freshwater Species**

- Market value of each commercial species and its culture methods
- Best management practices in culture of:
  - Carps and their polyculture with *Macrobrachium rosenbergii*
  - Murrels
  - Catfish
  - Zero ppt *Penaeus vannamei* culture
  - Ornamental fish culture
  - Culture of genetically selected Magur (Maha Magur) and its commercial benefits

#### **2. Advanced aquaculture technologies:**

- Biofloc system
- Aquaponics
- Recirculating Aquaculture System (RAS)

#### **3. Aquafeed Preparation and Management**

- Nutritional requirements of different commercial species
- Feed ingredients and their quality assessment
- Aquafeed preparation and management practices
- Live feed culture and its importance in nursery rearing

#### **4. Breeding Techniques of Maha Magur and Carp**

- Biology and identification of brooders of different species
- Hatchery management of carps and catfish
- Breeding techniques, hatchery management, and seed production of Maha Magur, other catfishes and carps

#### **5. Pond Maintenance**

- Pond fertilization
- Plankton collection
- Water quality analysis
- Disease management

#### **6. Visit to progressive fish farms**

### Eligibility criteria for this program

This program is open to fish farmers, aquaculture entrepreneurs, students, aspiring professionals or new entrants seeking to build or enhance their expertise in the aquaculture and aquafeed sectors.

### Medium of instruction

English, Hindi and Telugu

### How to apply

Interested participants can mail the application for in the prescribed format to the [fwff.balabhadrapuram@cife.edu.in](mailto:fwff.balabhadrapuram@cife.edu.in) or [shamna@cife.edu.in](mailto:shamna@cife.edu.in)

### Application form

1. **Name:**
2. **Date of Birth:**
3. **Educational qualifications (Degree & College/Institute/University):**  
Bachelors:  
Masters:  
Ph.D:
4. **Designation:**
5. **Discipline/Specialization:**
6. **Institute & Department:**
7. **Institute Address:**
8. **E-mail ID:**
9. **Mobile No.:**
10. **Aadhar Card No.:**

Signature of the Applicant with Date

Signature & Seal of the Forwarding Authority

