

## Mandate of ICAR - CIFE

- Conduct post-graduate programmes in fisheries sciences
- Basic and strategic research in frontier areas of fisheries science
- Human resource development, capacity building and skill development through training, education and extension

## Key Achievement of Division of Aquaculture

- Tilapia rearing protocol in biofloc system
- Biofloc reactor and process optimization
- Integrated aquaponics system
- Patented eco hatchery and floating carp hatchery for reservoirs
- Patented chitosan nano conjugate for sex reversal in tilapia
- Prototype automatic feeder and timer-based water filtration system
- Seed production of scampi using artificial/inland saline water
- Breeding of endangered Pengba, catfish hatchery, and cage-based seed raising. First-
- Breeding of *Aplocheilus lineatus* and *Caridina hodgarti*.
- Patented design of air lift biofloc system
- Patented design for live worm rearing unit

## Programme Director

Dr. N.P. Sahu, Director (Acting)  
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## Course Director

Dr. Debajit Sarma, Head  
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## Organizing Committee

Dr. Debajit Sarma (Head and Principal Scientist)  
Dr. Sukham Munilkumar (Principal Scientist)  
Dr. A. K. Verma (Principal Scientist)  
Dr. Paramita B Sawant (Principal Scientist)  
Dr. Babitha Rani A M (Principal Scientist)  
Dr. T. I. Chanu (Senior Scientist)  
Dr. Kapil Sukhdhane (Scientist)  
Dr. Madhuri Pathak (Scientist)  
Dr. Upasana Sahoo (Scientist)

Sponsored by  
Department of Fisheries,  
Govt. of Odisha

## 5-Day Training Programme on

# Recent Advances in Aquaculture Towards Enhancing Sustainable Production and Productivity

Venue: ICAR-CIFE, Mumbai  
04 - 08 Aug 2025



**ICAR-CENTRAL INSTITUTE OF FISHERIES EDUCATION**  
**Mumbai**  
**[www.cife.edu.in](http://www.cife.edu.in)**

# Training programme on Recent advances in aquaculture towards enhancing sustainable production and productivity (4 Aug 2025 - 8 Aug 2025)

Fish and aquaculture play a pivotal role in ensuring nutritional security, generating employment, and driving economic development, especially in a coastal and aquaculture-rich state like Odisha. With fish being a highly affordable source of animal protein, rich in essential nutrients and omega-3 fatty acids, its contribution to improving public health is undeniable. Aquaculture has emerged as the fastest-growing food production sector globally, offering immense potential to meet the rising demand for fish while reducing pressure on wild fisheries. In this context, building the capacity of fisheries officers is essential to sustainably harness these opportunities. The training program emphasizes recent advances in aquaculture aimed at enhancing sustainable production and productivity, aligning with the national priorities of doubling farmers’ income, promoting blue economy initiatives, and meeting the objectives of the Pradhan Mantri Matsya Sampada Yojana (PMMSY). Through this initiative, officials are empowered with scientific knowledge and innovative practices to effectively support fish farmers, improve resource utilization, and ensure environmentally responsible aquaculture development across Odisha.

## Courses contents >>>>

Date	Time	Course Title
Aug 4, 2025	11:00 AM – 12:00 PM	Overview of aquaculture development in India
	12:00 PM – 01:30 PM	Freshwater aquaculture production system
	02:30 PM – 03:30 PM	Cage aquaculture in reservoirs
	03:30 PM – 05:30 PM	Breeding of carps and catfishes
Aug 5, 2025	09:30 AM – 10:30 AM	Freshwater pearl farming
	10:30 AM – 11:30 AM	Mahseer breeding and conservation
	11:30 AM – 12:30 PM	Integrated fish farming
	12:30 PM – 01:30 PM	RAS & Precision farming
	02:30 PM – 03:30 PM	Bio-augmentation application in aquaculture
	03:30 PM – 05:30 PM	Live feed culture for aquaculture
Aug 6, 2025	09:30 AM – 11:30 AM	Soil & water quality management in aquaculture
	11:30 AM – 01:30 PM	Ornamental fish breeding and culture
	02:30 PM – 03:30 PM	Inland saline shrimp farming
	03:30 PM – 05:30 PM	Aquaponics and its farming techniques
Aug 7, 2025	All Day	Farm/Field Visit
Aug 8, 2025	09:30 AM – 10:30 AM	Coastal shrimp farming and seaweed co-culture
	10:30 AM – 12:30 PM	Biofloc aquaculture system
	12:30 PM – 01:30 PM	Fish nutrition strategies and feed management
	02:30 PM – 03:30 PM	Therapeutics in aquaculture



## ICAR - CENTRAL INSTITUTE OF FISHERIES EDUCATION

ICAR-Central Institute of Fisheries Education (CIFE), in over 60 years of existence, has emerged as a Centre of Excellence in Higher Education in Fisheries and allied disciplines. The Institute was established on 6th June 1961, under the Ministry of Agriculture, Govt. of India with assistance from FAO/UNDP. It came under the administrative control of Indian Council of Agricultural Research (ICAR) in 1979. Considering the wide mandate involving education, research and extension and recognizing the pivotal role played by CIFE in human resources development in fisheries, the institute was conferred the status of Deemed-to- be-University in 1989. ICAR-CIFE is now placed in a new campus with state-of-the-art facilities and located about 8 km from the domestic and international airports and 20 km from Dadar railway station, a major rail terminus in Mumbai. The training will be conducted in the new campus of CIFE