

### Eligibility

Staff/students of State Government of Fishery Department, ICAR Institutes, Universities including KVKs, from the field of life sciences, fish health management, nutrition, genetics, and aquaculturists are invited to apply. All applications duly forwarded by the Head of the Institution (not required in case of private candidates) should be sent to the Course Coordinators at the address provided. Photocopies of the format can also be used. A total of 20 participants will be selected after screening.

### Fees / Accommodation / Food Charges

Rs. 5000/- person needs to be paid as course fees. The payment can be made at the venue on first come first serve basis /first day of program by DD made in favour of **ICAR Unit – CIFE, Mumbai**. Accommodation and food charges will be extra and are to be borne by participants as per expenditure incurred. Boarding and lodging in the dormitory/twin sharing (if available) - Rs.150-250/day, single room (if available) - Rs.1500-2000/day (AC), while food charges would cost approximately Rs. 250/day.



### Programme Director

**Dr. Gopal Krishna**  
Director / Vice-Chancellor

### Course Director

**Dr. K.V. Rajendran**  
Head,  
Aquatic Environment & Health  
Management Division

### Course Coordinators

**Dr. Ram Prakash Raman**  
**Dr. Saurav Kumar**

### Course Co-Coordinator

#### DATES TO REMEMBER

Last date for submission of application form  
**24 November, 2018**

Communication of acceptance  
**26 November, 2018**

All future correspondence may kindly be sent to:

**Dr. R.P. Raman, Principal Scientist**  
(Mob. 09594073424)  
Email : [rpraman@cife.edu.in](mailto:rpraman@cife.edu.in)

**Dr. Saurav Kumar, Scientist**  
(Mb. 09004862021)  
E-mail : [saurav@cife.edu.in](mailto:saurav@cife.edu.in)

**ICAR - Central Institute of Fisheries Education**  
Panch Marg, Off Yari Road, Versova, Andheri (W),  
Mumbai - 400 061, India  
Fax. 022-26361573



## HEALTH MANAGEMENT IN FRESHWATER FISH CULTURE

**ICAR-CIFE's**

**SKILL DEVELOPMENT PROGRAM**



**3 - 10 December, 2018**

*Aquatic Environment & Health Management  
Division*

**ICAR - Central Institute of Fisheries Education**  
Panch Marg, Off Yari Road, Versova,  
Andheri (W), Mumbai-400 061, INDIA

Aquaculture is the fastest growing food production sector in our country. The major limiting factor in aquacultural production is the diseases of various etiologies. Like any animal including humans, fishes also suffer from a variety of diseases caused by pathogens and parasites viz. microbes including virus, bacteria and fungi; protozoan and metazoan parasites including helminths, nematodes, annelids, molluscs and arthropods. The infectious diseases account for 60% of the fish production loss in aquaculture ponds. As we know fishes are cold-blooded animals; consequently, they suffer from many environmental and stress-related diseases as well. Besides, there are many nutritional diseases. The outbreak of diseases, seriously hamper aquaculture production. Because fish are schooling aquatic animals, they are hard to observe individually, making the diagnosis and treatment of disease difficult. Therefore, controlling disease is one of the most vital tasks in aquaculture. With ever increasing intensification, finfish and shellfish farming have suffered from serious outbreaks of diseases in the recent past. Unscientific management practices together with irrational use of synthetic (unnatural) chemicals and therapeutics have had disastrous implications on aquacultural production due to catastrophic outbreaks of diseases. Diagnostics help in establishing the causative factors for diseases. Prevention and control of diseases in aquaculture can be achieved only through scientific

management practices. Considering the fish health as significant aspect for successful production in freshwater aquaculture, the Aquatic Environment and Health Management Division and the Division of Aquaculture of the Institute is organizing a Skill Development Program on, "Health Management in Freshwater Fish Culture", at the ICAR-Central Institute of Fisheries Education, Mumbai-400061, from 1-7 December, 2017.

### **ICAR-CENTRAL INSTITUTE OF FISHERIES EDUCATION**

ICAR-Central Institute of Fisheries Education (CIFE), Mumbai, in over 50 years of existence, has emerged as a Centre of Excellence in Higher Education in Fisheries Science and allied disciplines. The Institute was established on 6 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. The institute with its core strength in quality teaching, research and training has become a brand name in fisheries higher education in India and Afro-Asian countries. ICAR-CIFE is placed in a serene and beautiful campus in Yari Road, Versova with state-of-art facilities and located about 9 km from the domestic and international airports and 20 km from Dadar railway junction and 5 km from Andheri station.

The weather in December would be pleasant cool with requirement of light warm clothing.

#### **Areas to be addressed**

- **Freshwater fish culture in India**
- **Health management in fish culture**
- **Viral fish diseases**
- **Bacterial fish diseases**
- **Parasitic diseases in freshwater fish culture**
- **Therapeutics in freshwater aquaculture**
- **Soil & water quality management in fish culture**
- **Best management practices and prophylaxis for freshwater fish farming**

The purpose of the training is to understand the triad of fish host, pathogens and environment during disease processes, and their applications for health management. Attempts would be made to impart hands on training about various diseases and infections of freshwater fish farming.



**FORMAT FOR APPLICATION**

**Name of the Training Program**

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**Name of the candidate**

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**Full address of candidate for  
correspondence with  
phone/mobile/fax/email**

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**Qualification (last degree attained)**

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**It is certified that the information was  
furnished by me is correct as per office  
records.**

**Signature of the applicant**

**Date.....**

**Signature & designation of the sponsoring  
authority**

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