

Eligibility

No special qualification or prior knowledge is required to attend the skill development program. Anyone who can read and write English and Hindi and has an interest to learn is eligible to attend. All applications duly forwarded by the Head of the Institution (not required in case of private candidates) should be sent to the Course Coordinator at the address provided. Photocopies of the format can also be used.

Intake Capacity

A total of 20 participants will be selected after screening.

Fees /Accommodation/Food Charges

Rs. 4000/person needs to be paid as course fees. The payment can be made at the venue on first day of program, either in cash or DD made in favour of ICAR Unit – CIFE. Accommodation and food charges will be extra and have to be borne by participants as per expenditure incurred. Boarding and lodging in the International Guest House (IGH) – Rs. 2000/ day twin sharing, while food charges would cost approximately Rs. 400/day.

How to apply

The applications in the attached format may be emailed to :

nkchadha@cife.edu.in

paromita@cife.edu.in

Mob: 09820731336

Programme Director

Dr. Gopal Krishna

Director / Vice-Chancellor

Course Director

Dr. N.K. Chadha

Head, Division of Aquaculture

Programme/Course Coordinators

Dr. Paramita Banerjee Sawant

Mr. K.D. Raju

DATES TO REMEMBER

Last date for submission of application form
7 December, 2018

Communication of acceptance
15 December, 2018



ICAR - Central Institute of Fisheries Education

Panch Marg, Off Yari Road, Andheri (W),

Mumbai - 400 061, India

Fax. 022-26361573



ADVANCES IN AQUARIUM MANAGEMENT TECHNIQUES

7-11 January, 2019

ICAR-CIFE's



SKILL DEVELOPMENT PROGRAM



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

Ornamental fish trade is worth more than US\$ 8 billion globally, with an average annual growth of 9%. About 1,800 species of fish are traded (guppies and neon tetra alone commanding more than 25% of global market) and 30 out of 1200 varieties of freshwater origin, such as guppies, platys, swordtails, mollies, neon tetra, angel fishes, gold fish, zebra danio, discus and barbs, dominate the market. High value fishes such as Oscars, Discus and Arowana fetch higher profit. Top exporting countries (with % contribution to global trade) are Singapore (20%), Czech Republic (8%), Malaysia (7%), Israel (4%), Sri Lanka (3%) and China (1%). Main importers are USA, European Union and Japan. India's share in ornamental fish trade is estimated to be less than 1% of the global trade, majorly based on wild collection of indigenous varieties from the North Eastern States of India and the Western Ghats. Domestic ornamental fish market is worth around Rs. 50 Crore.

Aquarium keeping, a popular hobby among urban citizens, requires dedication and passion for these little jewels, who can light up any corner of your home with their graceful presence. They thrive well in brightly illuminated, clean and pollution free aquarium water, which calls for adequate feeding (with available pellets and live earth or bloom worms), siphoning, filtering (with undergravel/sponge or power filters) and periodic water exchange. These can either be kept alone or with other compatible species and various aquatic plants.

Aquarium making is an art in itself and so is the skill of aquascaping. Aquariums may be

of various dimensions according to the place where they need to be stationed and good aquascapes add value to the small ecosystem inside the aquarium. Good management practices go a long way to ensure healthier aquariums so as to continue this visual treat for years to come. Considering relatively simple techniques involved, this activity has the potential to create substantial employment opportunities besides earning foreign exchange. As an answer to the ever increasing demand for aquarium management techniques and needs of this industry, the Division of Aquaculture is organizing a Skill Development Program on, "Advances in Aquarium Management Techniques", at the ICAR-Central Institute of Fisheries Education, Mumbai - 400061, from 7-11 January, 2019.

ICAR-CENTRAL INSTITUTE OF FISHERIES EDUCATION

The premier *alma mater* for fisheries in India, CIFE was established in 1961 as an in-service training centre, mainly to impart proficient training and education to the fisheries professionals; where trainees were exposed to various operative learning strategies so as to equip them to face the challenges of the fisheries sector. By the year 1979, CIFE came under the administrative control of the Indian Council of Agricultural Research. In recognition of its yeoman services and expertise,

CIFE was deservedly conferred the Deemed-to-be-University status by University Grants Commission in 1989. Subsequently, the scope and mandate have been widened to include education as well as research. CIFE has made its mark in knowledge - driven economy

and in the process of enriching the quality of fisheries education, received accreditation from ICAR for its academic programmes and has been providing a need based curriculum, with tailor made extracurricular activities for the holistic development of fisheries professionals. The Institute is located about 9 km away from the domestic and international airports, 20 km from Dadar and 5 km from Andheri railway station. Mumbai, the financial capital of India, is well connected by air, rail and road with all cities of India. The climate is moderately cool during January and participants are advised to carry light warm clothing.

Topics

- ◆ **Fabrication of an aquarium**
- ◆ **Setting up and maintenance of a regular freshwater aquarium**
- ◆ **Setting up and maintenance of a regular marine aquarium**
- ◆ **Breeding and culture of popular freshwater exotic and high value ornamental fishes**
- ◆ **Water quality management for ornamental fish keeping**
- ◆ **Feed and health management for ornamental fish keeping**
- ◆ **Entrepreneurship development in ornamental fish industry**

Please fill up the form below and submit to the course coordinators/course director in person or submit a copy by email with a scanned signature :

FORMAT FOR APPLICATION

ICAR-CIFE's Skill Development Program

on

**ADVANCES IN AQUARIUM
MANAGEMENT TECHNIQUES**

(7-11 January, 2019)

Name of the candidate

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

Qualification (last degree attained)

Reasons for attending the program
