

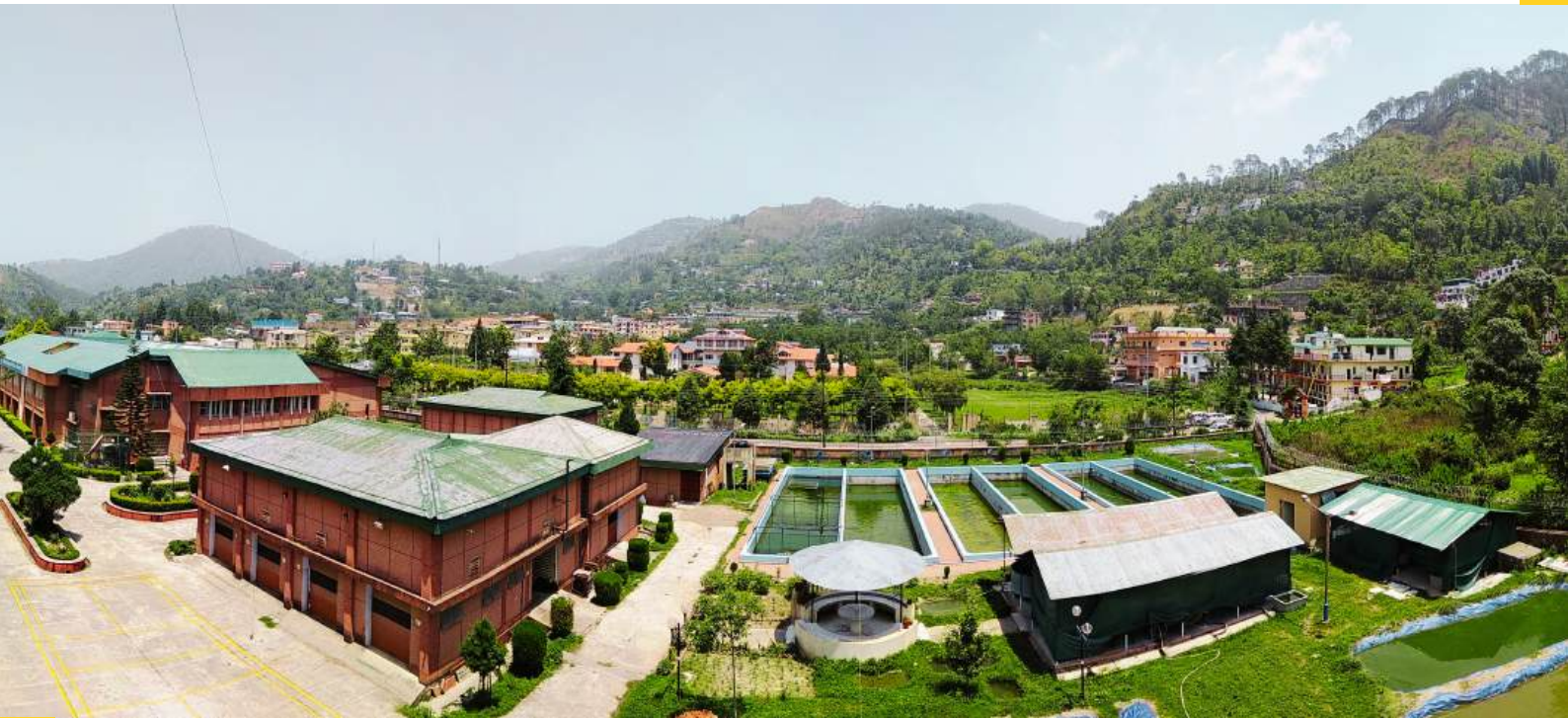


# ICAR WINTER SCHOOL ON



# INNOVATIONS IN AQUACULTURE

21<sup>ST</sup> JANUARY to 10<sup>TH</sup> FEBRUARY 2025



**Organized by**

**ICAR-Directorate of Coldwater Fisheries Research  
Bhimtal-263136, Nainital, Uttarakhand**

**Sponsored by**

**Agricultural Education Division  
Indian Council of Agricultural Research  
New Delhi**



# ABOUT THE WINTER SCHOOL

Aquaculture is one of the most important and fast-growing food production systems across the globe. For the first time in history, global aquaculture surpassed capture fisheries as the main producer of aquatic animals, reaching an unprecedented production volume of 94.4 million tonnes of aquatic animals in 2022. Particularly in India, aquaculture production was 10.24 million tonnes, which was 65% of the total aquatic animals produced in 2022. These statistics are testament to the potential of aquaculture to continually grow and cater to the ever-increasing demand for fish and seafood. However, transformative technologies and adaptive actions are needed to strengthen the efficiency, resilience and sustainability of aquaculture systems. In this milieu, we are organising the ICAR sponsored winter school programme to build human resources and capacity for future aquaculture expansion and intensification with special emphasis on improved production systems, nutrition, fish welfare and the aquatic environment.

## COURSE CONTENT

- Intensive fish production systems
- Innovations in fish breeding and seed production
- Precision nutrition and sustainable feeds
- Novel diagnostics and therapeutics
- Biotechnological applications to harness genetic potential
- Conservation aquaculture for preserving endemic biodiversity
- Ornamental fish culture and aqua-ecotourism
- Cellular aquaculture
- Geoinformatics in aquaculture
- Aquaculture value chain management



# ABOUT ICAR-DCFR

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ICAR-Directorate of Coldwater Fisheries Research is a premier research organization of the country, under the Indian Council of Agricultural Research (Department of Agricultural Research and Education). It is charged with the responsibility to address the research and development needs of the coldwater aquaculture and fisheries sector in the Indian uplands. Since its inception in 1987, ICAR-DCFR has made substantial contributions in the development of innovative aquaculture technologies and practices for the culture of important exotic and indigenous coldwater fish species in the hilly expanse of the country. Particularly, the Directorate has pioneered the development of coldwater recirculating aquaculture systems, high performance feeds, controlled breeding techniques, maturation inducing synthetic peptides, accurate diagnostic tools, efficient therapeutics, novel biotechnological interventions and decision support systems for coldwater aquaculture. Besides, ICAR-DCFR has made commendable efforts to expand and intensify aquaculture production across all the Himalayan states through effective research, extension and capacity building programmes. The main campus of ICAR-DCFR is located at Bhimtal, Nainital district, Uttarakhand. An experimental field centre of ICAR-DCFR is located at Champawat, about 150 km from Bhimtal.





# ELIGIBILITY

Scientists / Assistant Professors / Subject Matter Specialists or equivalent and above from ICAR institutes, SAUs, CAUs and faculty of Government affiliated Universities who are actively engaged in research, teaching and extension in Aquaculture related disciplines are eligible to attend the Winter School. The total number of participants will be restricted to 25.

## HOW TO APPLY

Eligible candidates are requested to register and apply online using the Capacity Building Programme (CBP) Portal of Agricultural Education Division, ICAR (<https://cbp.icar.gov.in/>). Take a printout of the filled application proforma, sign it and get it signed by the competent authority of your institute. Upload a scanned copy of the duly approved application form in the portal on or before 27th December, 2024. A sum of Rs. 50/- (Rupees Fifty only) must be paid by the participants towards registration fee, through a demand draft drawn in favour of Director, ICAR-DCFR or digitally to the bank account of ICAR-DCFR (Name: ICAR Unit-DCFR, Bank Account: 11521442640, IFS Code: SBIN0007348A). A copy of the online application duly recommended by the competent authority along with a demand draft / payment receipt of Rs. 50/- (non-refundable) should also be mailed to the organisers ([director.dcf@icar.gov.in](mailto:director.dcf@icar.gov.in); [dimpal.thakuria@icar.gov.in](mailto:dimpal.thakuria@icar.gov.in); [bs.kamalam@icar.gov.in](mailto:bs.kamalam@icar.gov.in)), on or before 27th December, 2024.

## IMPORTANT DATES

Last date of application - 27 December 2024

Intimation of selection - 31 December 2024

Confirmation of participation - 03 January 2025



## ABOUT BHIMTAL

Bhimtal is an exquisite town in Nainital district of Uttarakhand, situated at an altitude of 1370 meter above sea level. During January, the winter will be at its peak in Bhimtal, and temperature may drop below 5<sup>o</sup> C. Therefore, the participants are suggested to carry adequate warm clothing. The nearest railway station is Kathgodam, 22 km from Bhimtal and 278 km from Delhi. The nearest bus terminal is Haldwani, 25 km from Bhimtal. The nearest airport is at Pantnagar, 58 km from Bhimtal.

# TRAVELLING ALLOWANCE

Participants are requested to make their own travel arrangements. Travel expenses of the selected participants will be reimbursed as per their entitlement for the class of travel, restricted to the maximum of AC II tier rail fare by the shortest route. Please note that if any participant chooses to travel by air, their claim shall be restricted to AC-II tier train fare only, provided they book their tickets through M/s Balmer Lawrie & Company Limited, M/s Ashoka Travels & Tours or Indian Railways Catering and Tourism Corporation Ltd. Participants are required to produce tickets and cash receipts in support of their claims.

# BOARDING AND LODGING

The selected participants shall be provided free accommodation on sharing basis, along with meals and refreshments as per ICAR norms. Local participants are not eligible for boarding and lodging. However, working lunch and refreshments will be provided to all. Participants are requested not to bring any family members along with them as there is no scope for their accommodation. No DA will be paid to participants.

## FOR FURTHER INFORMATION - CONTACT

### Course Director

**Dr. Pramod Kumar Pandey**  
Director, ICAR-DCFR  
[director.dcfr@icar.gov.in](mailto:director.dcfr@icar.gov.in)

### Course Co-Directors

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