The institute is located 600 meters away from High Court along Abraham Madamakkal Road, Ernakulam. It is around 2.5 km from Ernakulam North Railway Station and 3 km from KSRTC Bus Stand. Prepaid auto/taxi facilities are available from the station to institution.

**For More Information**

**Dr A. Gopalakrishnan**  
**Director**  
ICAR-Central Marine Fisheries Research Institute  
Post Box No. 1603, Ernakulam North P.O.  
Kochi - 682018, Kerala  
Ph. No. 0484-2394867; Fax No. 0484-2394909  
Email: director@cmfri.org.in

**Dr P.U. Zacharia**  
**Course Director & Head,**  
Demersal Fisheries Division  
ICAR-Central Marine  
Fisheries Research Institute  
Post Box No. 1603, Ernakulam North P.O.  
Kochi - 682018, Kerala  
Ph. No. 0484-2394061  
Email: zachariapu@gmail.com

**Dr T.V. Sathianandan**  
**Course Coordinator & Head,**  
Fishery Resources Assessment Division  
ICAR-Central Marine  
Fisheries Research Institute  
Post Box No. 1603, Ernakulam North P.O.  
Kochi - 682018, Kerala  
Ph. No. 0484-2394867  
Email: tvsedpl@gmail.com

**Dr P. Kaladharan**  
**Course Coordinator & Principal Scientist,**  
ICAR-Central Marine  
Fisheries Research Institute  
Post Box No. 1603, Ernakulam North P.O.  
Kochi - 682018, Kerala  
Ph. No. 0484-2345830  
Email: kaladharanep@gmail.com

**Dr T. M. Najmudeen**  
**Course Coordinator & Principal Scientist,**  
ICAR-Central Marine  
Fisheries Research Institute  
Post Box No. 1603, Ernakulam North P.O.  
Kochi - 682018, Kerala  
Ph. No. 0484-2345830  
Email: najmudeentm@yahoo.com

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**Application Form for Winter School on Climate change impacts and resilience options for Indian marine fisheries**  
**(November 8th-29th 2018)**

Full name (in Block letters)

Designation

Present Employer & Address

Address for Communication

E-mail Address .......................................................... Date of Birth ..................................

Sex (Male/Female) ....................................................................................................................

Teaching/Professional experience

(Mention posts held during last 5 years and number of publications)

Mention participation in any previous Training Programmes, Seminars, Summer/Winter School, Short Courses etc. during previous years under ICAR/Other organizations.

Postal Order drawn in favour of ICAR Unit– CMFRI

(No…………………… Dated………………………………………..)

For Rs.50/- as registration fee, Payable at Ernakulam

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**Educational Qualifications**

<table>
<thead>
<tr>
<th>Examination passed</th>
<th>Main Subjects/Allied</th>
<th>Year</th>
<th>Division</th>
<th>University/Institution</th>
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<tbody>
<tr>
<td>Degree</td>
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<td>Post Graduate</td>
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<td>Doctoral</td>
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<td>Others</td>
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</tbody>
</table>

Date:  
Place:  

(Signature of the Applicant)

Countersigned  
Authority (Director/Dean/Head of Regional Station, etc)
About CMFRI

The Central Marine Fisheries Research Institute (CMFRI) is a government research institution under Indian Council of Agricultural Research, India. Over the past 70 years, CMFRI has displayed an unparalleled research acumen and unbridled commitment which has greatly enhanced the marine fish production and management of the fisheries sector and for the livelihood of 40 lakh fisherfolk of the country. CMFRI stands at the forefront of research in the marine capture fisheries sector in India, contributing to research into fish stock estimates, optimum fleet size, mariculture, impact of climate change on marine fisheries, marine biotechnology and biodiversity, fishery environment and fishery economics and extension.

CMFRI holds a strong foundation and achievements such as the development of National Marine Fishery Database; stock health report card of state-wise and national fish stocks; management advisories for state fisheries departments, the certification of Marine Stewardship Council for an Indian fishery resource; studies on seasonal fishing ban; marine pearl culture; artificial reefs; immense marine resources; seed production technology of marine finfish and shellfish; sea farming and coastal mariculture technologies; nutraceuticals from marine organisms; fish feeds for mariculture; genetic characterization of stocks and the digital repository - eprints@CMFRI. CMFRI is also actively involved in fisheries management and adaptation plans addressing climate change issues and impacts over the ecosystem through the Network Project on Climate Change initiated in 2006 and the National Innovations in Climate Resilient Agriculture (NICRA) implemented in 2011. There is no research organization better suited for leading India’s marine fishing sector to greater heights.

Background

Climate change and its effects are one of the foremost challenges facing fishery industries across the world. Effects such as rising ocean temperatures and ocean acidification are radically altering aquatic ecosystems, and climate change is modifying fish distribution and productivity of both marine and freshwater ecosystems, impacting the livelihoods of communities that revolve around these industries. Equipping scientists and other stakeholders with the tools and requisite knowledge to assess and adapt to these changes is of paramount importance to ensuring the continued survival of the fishery industry in the years to come.

Course Content

- Climate change in Indian marine fisheries context
- Environmental variables from open source data sets
- Climate change modeling
- Statistical analysis of climate data
- Coastal and species vulnerability assessment
- Coastal land use matrices
- Adaptation and mitigation strategies
- Fostering climate resilience through technology
- Oceanographic sampling techniques
- Life cycle assessment and blue carbon estimation
- Geospatial techniques in marine fisheries
- Habitat remediation
- Climate Smart Village development

Eligibility

The ICAR sponsored winter school is open for participants from ICAR institutes/State AUs/CAU/Agricultural faculty of AMU, BHU, Vishwa Bharti and Nagaland University in the cadre of Assistant Professors or equivalent and above.

The applicants should possess a post-graduate degree with working knowledge on climate change and related aspects.

A maximum of 25 participants will be selected based on their experience and areas of research.

How to apply

The eligible candidates may apply online at http://cbp.icar.gov.in/applyDetails.aspx and also send their applications through proper channel in the prescribed format to nicracmfrikochi@gmail.com or send it by post to:

Dr. P.U. Zacharia,
Winter School Course Director,
Demersal Fisheries Division,
ICAR-Central Marine Fisheries Research Institute,
Post Box No. 1603, Ernakulam North P.O.,
Kochi-682 018, Kerala, India.

Dates to remember:

Last date for receipt of application: 15th September 2018
Last date for intimation of attendance: 1st October 2018

Registration Fee

The participants are required to pay a sum of Rs. 50/- (Rupees Fifty only) as a non refundable registration fee along with a filled application in the form of an Indian Postal Order in favour of the Director, ICAR CMFRI, payable at Ernakulam.

Boarding and Lodging

Free boarding and lodging will be provided to outstation participants as per the approved ICAR norms for winter school. Please note that no accommodation will be provided to family members or guests of the participants.

Travel

Participants will be paid travel fare to and fro through the shortest route from their respective institution to CMFRI, Kochi, for the journey by AC-II/III class train fare or bus fare as the case may be. Travel allowance will be paid on production of the tickets by participants.