



# Training Programme On

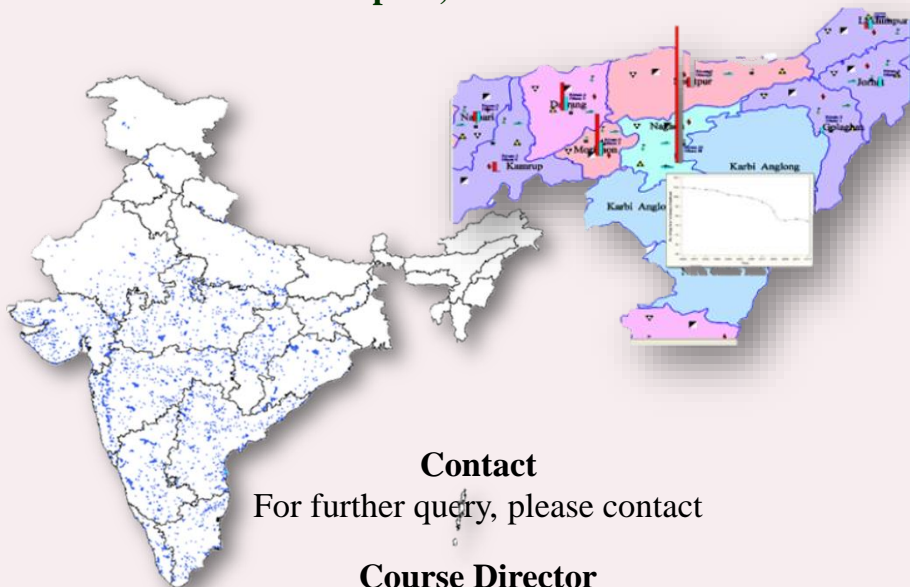


## Basics of GIS Mapping on open source software

Date: 21<sup>st</sup> May-24<sup>th</sup> May, 2024

Organized by

ICAR-Central Inland Fisheries Research Institute  
Barrackpore, Kolkata – 700 120



### Contact

For further query, please contact

### Course Director

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### Course Coordinator

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### About the Institute:

ICAR-Central Inland Fisheries Research Institute (ICAR-CIFRI), an ISO 9001: 2015 certified, is a premier fisheries research institute in India since 1947. The Head Quarter of the Institute is located in Barrackpore, Kolkata – 700 120. With more than 76 years of national and international presence in the field of inland open water fishery, ICAR-CIFRI is extending its expertise and facilities for direct benefit of the fisher community, private and public organizations, academic institutions, and state departments.

### Eligibility to apply:

The training course is designed for scientists, technical personnel, and research scholars. Participants should have a graduation degree with a working knowledge of computers and must bring their own laptops to the training programme.

### How to apply:

Interested personnel may apply through proper channel along with duly filled registration form. The fee can be paid in form of Demand draft in favour of “ICAR Unit-CIFRI” payable at State Bank of India, Barrackpore, Kolkata-700120, Bank Account Number: 11278713220 at State Bank of India, Barrackpore Branch (IFSC code: SBIN0000029)

### Training Fees:

**2000** For Professors, Scientist and other officials

**NIL** For ICAR-CIFRI employees and researchers

No TA/DA will be provided. The participant may avail the boarding / lodging facility of the institute as per the tariff of ICAR-CIFRI.

### Duration of the Training:

21<sup>st</sup> May to 24<sup>th</sup> May, 2024

Time: 9.30 am to 5.30 pm

### Venue:

ICAR-Central Inland Fisheries Research Institute, Barrackpore,  
Kolkata – 700120, West Bengal, India

[ICAR-CIFRI \(http://www.cifri.ernet.in\)](http://www.cifri.ernet.in)

## Objectives of the Training:

Geographic Information System (GIS) plays a key role in planning, data collection, analysis, and drawing meaningful interpretations that facilitate judicious decision-making for inland fisheries management. It enhances the capability of researchers in geocoded data collection, geodatabase development, spatial analysis, spatial data presentation, and spatial prediction. It applies suitable techniques and implements correct tools from various geospatial software for natural resource management.

Open source software refers to publicly accessible software that individuals can modify, redistribute, and which no one has exclusive control over. Presently, open source software is available worldwide for various purposes, with a large group of users utilizing it.

The term "open source" originated in the context of software development, indicating a specific approach to creating computer programs. Open source software refers to software whose source code anyone can inspect, modify, and enhance.

This course aims to build and update concepts of Geographic Information Systems and geo-coordinates, providing knowledge of different spatial analytical techniques and software implementation for fisheries data. The training course is mostly practical-oriented, with theoretical explanations provided to build foundational concepts. After theoretical deliberation, practical sessions will utilize open-source GIS software (QGIS), focusing on data presentation on maps, map creation, and thematic map preparation, all aimed at enhancing inland fisheries management.

## Objectives of the Training:

- To introduce the open source GIS software
- To strengthen the knowledge and concept of Geographic Information System
- To get acquainted with open source GIS software QGIS for study area and thematic map preparation

## Course content:

The course have classroom lectures as well as practical session. The main focus of programme will be to develop the basic concept GIS and thematic map development on fisheries related data. Participants are requested to bring with them one or two data sets of their own research with the shape file of their study area. These data sets and may be analyzed using software and appropriate maps will be prepared during practical session. The course content will be divided into two modules.

### Module I:

Concepts of Geographical Information system and Geo referencing

- |   |  |
|---|--|
| <input type="checkbox"/> Fundamental of GIS                       | <input type="checkbox"/> Data and Database           |
| <input type="checkbox"/> Installation and overview of QGIS        | <input type="checkbox"/> Cartograms and thematic map |
| <input type="checkbox"/> Image import and Geo-referencing         | <input type="checkbox"/> Vectorization               |
| <input type="checkbox"/> Attribute data generation and attachment | <input type="checkbox"/> Data analysis and symbology |
| <input type="checkbox"/> Image and vector import from GE          | <input type="checkbox"/> Map preparation             |

## APPLICATION FORM

### Basics of GIS Mapping on open source software

1. Full Name (in block letters):
  2. Designation:
  3. Present employer address:
  4. Educational qualification:
  5. Mobile No. :
  6. e-mail:
  7. Sex: Male/ Female
  8. Transaction ID of registration fee payment
  9. Whether accommodation on payment basis is required at ICAR- CIFRI Yes / No
  10. Recommendations of the forwarding Institute
- Signature of the competent/forwarding authority                      Signature of Applicant

## How to reach ICAR-CIFRI

Barrackpore is located in North 24-Parganas district, 24 Km. away from Netaji Subhas Chandra Bose airport and Howrah Rly. Stn., and 22 Km away from Sealdah/ Kolkata Rly Stn. ICAR-Central Inland Fisheries Research Institute is located at Monirampur, 5 Km. away from Barrackpore Rly Stn. on Sealdah Main Rly. section. One can reach also from Howrah Rly. Stn., alighting at Sheoraphuli Rly Stn. (on Howrah-Burdwan Main section) and then by crossing the ferry at Sheoraphuli ghat (*alias* Du paisa ghat) to Manirampur Ghat and walk to the campus.

