

ICAR-Central Inland Fisheries Research Institute (ICAR-CIFRI) is a premier research organization established in 17 March, 1947 and has developed state of art facilities. The institute has expertise in wide research domain of inland fisheries resources, including reservoirs, wetland, riverine and estuarine ecosystem.

Lab facilities: The Institute has well equipped GIS lab facilities with GIS and Remote sensing software's packages along with modern teaching aids.

Library: The e-library has collection of books and journals in fisheries.

Guest house: The Institute has a guest house with modest facilities to cater to the needs of the participants.

Eligibility:

- Graduate in Science
- Working knowledge of Computer
- Working in any ICAR Institute or SAUs/ CAUs / ICAR funded KVKs

Nominations:

Interested personnel fulfilling the eligibility criteria may apply through proper channel along with registration form dully filled. The fee can be paid in form of Demand draft/NEFT/RTGS in favour of "ICAR Unit-CIFRI" payable at State Bank of India, Barrackpore, Kolkata-700120, (IFSC code 00029)

Course Fees:

₹ 2500 For students/ research scholars

₹ 5000 For scientist and faculty

* No TA/DA will be provided. The participant may avail the Boarding / lodging facility of the institute as per the tariff of ICAR-CIFRI. The approximate tarrif for boarding and lodging is @ ₹250 per day for students/ research scholar and @ ₹450 per day for scientist and faculty

Venue:

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

Duration: 26th November, 2018 to 30th November, 2018

ICAR-CIFRI (<http://www.cifri.ernet.in>)

Training Programme

On

**Application of Open source GIS Software for Inland Fisheries
Management**

Date: 26-30 November, 2018



Organised by

**ICAR-Central Inland Fisheries Research Institute,
Barrackpore, Kolkata-700120**

Convenor:

**Dr. B.K. Das, Director
ICAR-Central Inland Fisheries Research Institute**

Course Coordinator:

S. K. Sahu Scientist, ICAR-CIFRI

Course Co-coordinator:

**Dr. R. K. Raman, Scientist, ICAR-CIFRI
Dr. P. K Parida, Scientist, ICAR-CIFRI**

**Last Date for receipt of Applications: 10/11/18
Information to selected Candidate: 15/11/18**

Introduction:

Geographical Information System (GIS) plays a key role in planning, data collection, analysis and drawing meaningful interpretation that facilitate judicious 'decision making' for Inland Fisheries Management. It enhance the capability of researchers in geocoded data collection, geodatabase development, spatial analysis, spatial data presentation and spatial prediction. It applies suitable techniques, implements correct tools from various geospatial softwares for natural resource management. Open source software are licensed software free to use, modify redistribute and no one has exclusive control on the software. Presently open source software available worldwide for various purposes. A huge group of user are using open source software.

"Open source" refers to public accessibility to something, which a person can modify and share. Having its origins in the context of software development, the term "open source" designates a specific approach to creating computer programs. The source code of a software that anyone can inspect, modify and enhance, is an open source software.

This course therefore aims to build and update concept of geographical Information system and geo-coordinates, which will provide knowledge of different context of spatial analytical techniques and software implementation for fisheries data. The training course is mostly practical oriented, although the theory will be explained to build up concept. After theoretical deliberation, practical session will be followed with open source GIS software (QGIS). The focus will be more on Data presentation on map and Map creation and Thematic map preparation, leading to the inland fisheries management.

Objectives:

- To introduce the open source GIS software
- To strengthen the knowledge and concept of Geographical Information System
- To get acquainted with open source GIS software QGIS for 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 analysed 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

- Fundamental of GIS
- Data and Database
- Geo-coordinate, Geo referencing, GPS and projection
- Cartograms and thematic map
- Map preparation

Module II

Open source GIS software and its use

- Installation and overview of QGIS
- Image import and Geo-referencing
- Vectorization
- Attribute data generation and attachment
- Layout generation and map composition
- Data analysis and symbology
- Cartogram and theme generation

Application Form

1. Full Name (in block letters): _____

2. Designation: _____

3. Present employer and address _____

4. Communication address (in _____
block letter) _____

5. Permanent address _____

Telephone No. (off.): (Res.) (optional)

Mobile No. : Fax No. (optional)

e-mail:

6. Date of birth:

7. Sex: Male/ Female

8. Professional experience

9. Marital status:

10. Last Academic Record:

Exam Passed	Subjects	Year of Passing	Class	University/ Institution

11. Discipline:

12. Level of knowledge of GIS and Computer usage

Signature of the applicant with Date

13. Recommendations of the forwarding Institute

Signature of the Forwarding / Sponsoring Authority
with Seal and Date

All correspondence may be addressed to:

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