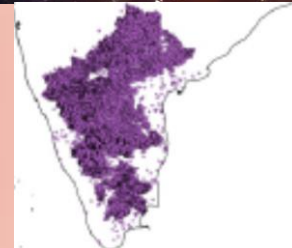
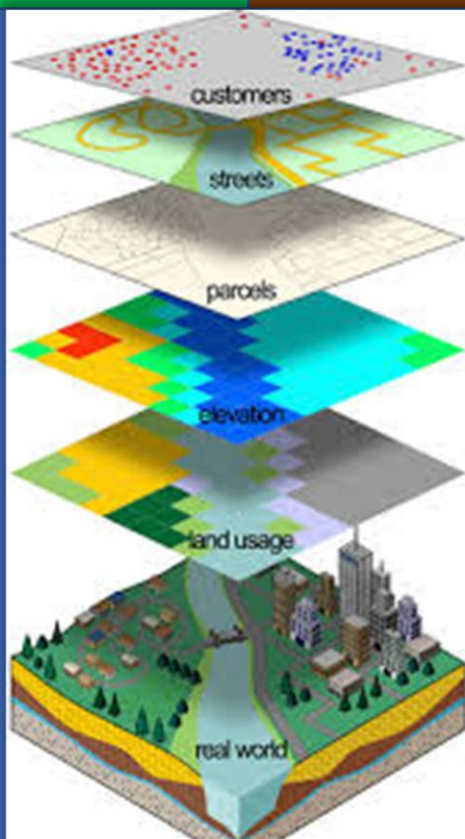


ICAR-CIFE

# Online Training programme on Geospatial Analysis Using Open-Source Software

September 4 -September 9, 2023



**ICAR- Central Institute of Fisheries Education  
(Deemed University)  
Panch Marg, Yari Road, Andheri (W)  
Mumbai, 400061**



## Background

ICAR-Central Institute of Fisheries Education (CIFE), in over 50 years of existence, has emerged as a centre of excellence in higher education fisheries and allied disciplines. The Institute was established on 6th June 1961, under the Ministry of Agriculture, Govt. of India with assistance from FAO/UNDP. It came under the administrative control of Indian Council of Agricultural Research (ICAR) in 1979. Considering the wide mandate involving education, research and extension and recognizing the pivotal role played by CIFE in human resources development in fisheries, the institute was conferred the status of Deemed-to-be-University in 1989. The institute with its core strength in quality teaching, research and training has become a brand name in fisheries higher education.

In the past, ICAR-CIFE has conducted various training programmes in the field of GIS and remote sensing. Also many courses related to GIS and remote sensing is offered at MFSc and PhD level at this Institute. Students and faculty are working in different dimension of remote sensing and GIS as a research work.

Existing technology such as the Geographic Information System (GIS) and remote sensing (RS) can be used to improve fisheries and aquaculture planning and management. GIS technologies are being used to create appropriate methodologies, policies, and management plans for the medium and long-term sustainable use of fishing resources and environmental facilities for fisheries and aquaculture. It is being used in aquaculture research over the past 15 years to analyse the sustainability of coastal areas for fish farming. Multiple uses of estuarine waters, impact of water quality on shellfish leases, aquaculture, and habitat availability, and conflict issues between aquaculture operations and marine waterfowl habitats have been addressed using GIS.

## Programme content

The course is designed in such a way that it will have theory and practical session. In the practical sessions learning-by-doing/hands-on activities will be included. Course content will include following.

- ✓ Brief about GIS, GPS and Remote Sensing
- ✓ Introduction to QGIS (download & installation procedures)
- ✓ Vector and raster data analyses
- ✓ Visual interpretation of image and geo-referencing of toposheets
- ✓ Introduction to image enhancements
- ✓ Image rectification and restoration
- ✓ Image classification
- ✓ Digital change detection
- ✓ Application of Google earth engine and Machine learning
- ✓ GIS and Socio-economics data

## Duration

**4<sup>th</sup> September to 9<sup>th</sup> September 2023 (6 days)**

## Who should attend?

Scientists/Faculty/Technical Officers from ICAR/SAU/CAU, Masters and PhD scholars from ICAR/SAU/CAU. Participants should possess some prior knowledge of GIS and Remote Sensing. The participants are required to have a Desktop/Laptop with good internet connection.

## Registration form

1. Name:
2. Designation:
3. Department/division:
4. Qualifications:
5. Address for communication:
6. Telephone/mob number:
7. Email id:
8. Prior knowledge in GIS and RS: Yes /No
9. Level of usage: Beginner / Intermediate / Proficient
10. Reason for attending:
11. Name and signature of participant at bottom right corner.

## Last date of Application submission

30<sup>th</sup> of August 2023

## Programme Fee

A fee of Rs. 3,000/- is charged for Scientists/ Faculty/ Technical Officers. Rs. 1,000/- for scholars from ICAR-CIFE and Rs. 1,500 for non-CIFE scholars. This fee need to be paid to Account Name: ICAR Unit CIFE, Mumbai, Name of the Bank: State Bank of India (Account Number: 101323552I2, IFSC Code: SBIN0003117)

## How to apply

Please use the format provided above (Registration Form) and email your application along with the proof of transfer of the course fee to Dr. Vinod Kumar Yadav (Mail: [vinodkumar@cife.edu.in](mailto:vinodkumar@cife.edu.in) or FAX: 022-26361573).

### Program Director

**Dr. Ravishankar C. N.**

Director/Vice-Chancellor  
ICAR-CIFE, Mumbai

### Course Director

**Dr. Vinod Kumar Yadav**, Senior Scientist  
FEES Division, ICAR-CIFE, Mumbai

### Course Coordinators

**Dr. Vidya Shree Bharti**  
Senior Scientist, AEHMD, ICAR-CIFE,  
Mumbai

**Dr. Arpita Sharma**, Principal Scientist and  
HoD,  
FEESD, ICAR-CIFE, Mumbai