

ANNOUNCEMENT BROCHURE



Certificate Course on Open Source GIS Technologies (Skill Development programme in Hybrid Mode)



Course Duration

July 15-26, 2024

Registration Link

<https://admissions.iirs.gov.in>

Last Date to Apply

May 19, 2024

Number of Seats

20



Indian Institute of Remote Sensing
Indian Space Research Organisation
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ABOUT IIRS

IIRS is a premier institute with a primary aim to build capacity in Remote Sensing and Geoinformatics technologies and their applications through training, education and research programmes. IIRS is a Unit of Indian Space Research Organisation (ISRO), Department of Space, Government of India. While nurturing its primary endeavor to build capacity among the user community by training mid-career professionals since its inception in 1966, the Institute has enhanced its programmes to meet the requirements of various stakeholders, ranging from fresh graduates to policy makers including academia, industry, different government departments and NGOs

OPEN SOURCE GIS

Open-source GIS has received substantial attention in last few years due to its free to use licensing policy and support for indigenous technological development by having access to the source code and flexibility to change it and redistribute. Apart from this, in geospatial domain web services are very important to achieve interoperability in data and information available with different data providers. Today, the geospatial services available in internet through various geo-portals are increasing rapidly.

OBJECTIVES OF THE COURSE

The overall objective of this two weeks training programme is to generate awareness among users / researchers / professionals / decision-makers / academicians on geospatial technology in open source GIS and web GIS environment. The participants will be familiarized with the various geo-spatial data processing (Vector/Raster) using open source GIS software, Geo-RDBMS concepts, open geodata repositories and concepts of geo web services for developing any generic geo web portal. The course will help the participants to explore GIS customization in open source environment through programming concepts. The course will include theory and hands on sessions to facilitate in-depth learning.

COURSE CURRICULUM

- Overview of Geospatial Technology and its applications.
- GIS data structure and data models.
- Concept of Open Source GIS and FOSS4G.
- Popular open geo-data repositories.
- Raster and Vector data Analysis using FOSS4G.
- Satellite Image processing in ILWIS.
- Advance Image Processing through SNAP.
- Ground data collection and mobile GIS.
- Concept of geo web services and API.
- OGC web services through Geoserver.
- Geo-RDBMS through PostGIS.
- Geoprocessing using python programming language.

MODE OF TRAINING

The course includes lectures as well as practical hands-on sessions delivered by distinguished IIRS faculty as well as eminent guest faculties.

WHO SHOULD ATTEND?

- Professional interested in Geospatial Technologies

COURSE DETAILS

1. HOW TO APPLY

- Fill up the online application form available in IIRS website <https://admissions.iirs.gov.in>
- Offline applications shall not be considered.
- The last date to apply for the course is March 03, 2023 [17:30 hrs].
- Govt.-sponsored candidates must submit the Nomination Form from the Competent Authority of their parent organisation/institute at the time of submitting the online application. The template of the Nomination Form can be downloaded from <https://admissions.iirs.gov.in>

2. ELIGIBILITY CRITERIA

- Graduate in Engineering or Post Graduate in Science (Computer Science/ Mathematics/ Physics/Geo-informatics/ RS&GIS/ Comp. Applications/ Any thematic applications or equivalent) OR Diploma in Engineering with at least three years working experience in related areas.
- **Prerequisite:** Working knowledge of computer operations

Note: *Candidates nominated by the govt. organisations & professionals working in the related field will be given preference for admission.*

3. PROCESS OF APPLICATION

- Only Online Applications will be considered. Refer course flyer on the IIRS website (www.iirs.gov.in) for submitting an application and additional details.
- **Application Fee:** Rs. 500/- (Non-refundable.)

4. COURSE FEE

- Rs. 8,500/- (Rs. 4,000: Tuition Fee + Rs. 4,500: Registration & Other Charges).
- Boarding & lodging charges in IIRS Golden Jubilee Hostel are extra and will have to be paid by the candidate as per the IIRS hostel rules & regulations.

5. ACCOMMODATION

- Participants will be provided accommodation in IIRS hostel. All hostel rooms are well furnished and are allotted on single/double occupancy basis.
- Local candidates will be considered for hostel accommodation, only if available.
- Indian cuisine is served in the hostel mess. The expenditure towards boarding and lodging will have to be borne by the participants as actual rates of IIRS.
- No accommodation will be provided to the accompanying person/children.

6. IMPORTANT DATES

- Start date to Apply: 15.01.2024 [10:00 hrs]
- Last date to Apply: 19.05.2024 [17:30 hrs]
- Announcement of selection list: 17.06.2024
- Course start date: 15.07.2024
- Course completion: 26.07.2024

7. NUMBER OF SEATS

- 20 (all seats for Indian nationals only)

Hybrid Course :

- One week (15.07.2024- 19.07.2024)
- Online and one week (22.07.2024-26.07.2024) in campus

"...if we are to play a meaningful role nationally, and in the community of nations, we must be second to none in the application of advanced technologies to the real problems of man and society."

Vikram A. Sarabhai



CONTACT DETAILS

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Director

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