

30 Hours
Add-on/Certificate
Course

PLACE OF THE EVENT
MUZAFFAR AHMED MAHAVIDYALAYA,
SALAR, MURSHIDABAD

ADD-ON COURSE ON

"Techniques of Digital Mapping Using Open Source Software"

24th February, 2025 – 7th March, 2025

Organised by
Department of Geography
Muzaffar Ahmed Mahavidyalaya
Salar, Murshidabad, West Bengal
Pin: 742401



In Collaboration with
IQAC, Muzaffar Ahmed Mahavidyalaya
&
Graphic Ideation Solution Pvt. Ltd.
69, R. N. Tagore Road, Berhampore,
Murshidabad

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COURSE OUTLINE

This course provides a comprehensive overview of geospatial data acquisition and processing, emphasizing practical applications and techniques. Participants will start by learning how to acquire free geospatial data from sources like the National Remote Sensing Centre (NRSC)/Bhoonidhi and the United States Geological Survey (USGS). The course will guide students through the georeferencing process, ensuring that maps and images align accurately with real-world coordinates. Students will gain hands-on experience in digitizing features, including points, lines, and polygons, which is crucial for creating detailed maps. The course also covers data attachment and the preparation of thematic maps using visual tools such as bar graphs, pie charts, and choropleths. Participants will learn to prepare False Color Composites (FCC) using data from IRS LISS-III/IV and LANDSAT (ETM+), enhancing their ability to analyze various geographical features. Furthermore, the course delves into land use and land cover (LULC) mapping through both supervised (Maximum Likelihood) and unsupervised image classification methods, using the same satellite data sources. This curriculum is designed to equip students with the skills necessary for effective geospatial analysis and mapping.

COURSE CONTENT

- 1.Acquisition procedure of the geospatial data from NRSC/Bhooonidhi and USGS.**
- 2.Geo referencing of maps and images**
- 3. Digitisation of features: Point, Line and Polygon**
- 4. Data attachment and preparation of thematic map (Bar graph, pie-chart and choropleth)**
- 5. Preparation of FCC using IRS LISS-III/IV and/or LANDSAT (ETM+) data.**
- 6. Preparation of LULC map by Supervised Image Classification (Maximum Likelihood) using IRS LISS-III/IV or LANDSAT (ETM+) data**
- 7. Preparation of LULC map by Unsupervised Image Classification**

Target Audience

Students of the Department of Geography, Muzaffar Ahmed Mahavidyalaya as well as the other students of our college who are interested in pursuing this field.

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Chief patron
Dr. Karunamoy Chatterjee
Principal
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Course Coordinator
Dr. Sakila Haque
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Organising Committee



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For Lab Assistance



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Important Dates

Commencement of Registration: 20th February, 2025.

Last Date to Register: 22nd February, 2025.

Publication of eligible candidates: 23rd February, 2025.

Course Duration & Mode



Duration: 30 Hours



Mode: Offline



Certification: Yes (On completion).

Registration Details

 **Last Date to Register: February, 22.**

 **Course Fee: 300/-**

SEATS LIMITED

first come first serve basis

 **Account Details:**

Account no. 18480500000082

Bank Name: Punjab National Bank

Branch Name: Purbagram Salar

IFSC Code: PUNB0184820

Account type: Current

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