

Five Days' Workshop cum Hands-on Training Programme



on

GEOINFORMATICS



Organised by

**National Atlas and Thematic Mapping Organisation
(NATMO), Govt. of India**

In collaboration with

**South Asian Institute for Advanced Research and
Development (SAIARD)**

(A MSME, Govt. of India, Certified academic cum research institute)

On

22nd – 26th July, 2019

Venue

**National Atlas and Thematic Mapping Organisation
(NATMO),**

C.G.O. Complex, Salt Lake, Kolkata

About NATMO

National Atlas and Thematic Mapping Organization (NATMO) functioning as a subordinate department under the Department of Science & Technology, Ministry of Science & Technology, Government of India, with its headquarter at Kolkata. Since its inception, it is the sole national agency bearing the responsibility of depicting national framework data in the form of thematic maps and atlases to cater the various needs of different sectors. NATMO being a specialized institution of its kind also engaged cartographic and geographical researches at national level. NATMO has conceived and published more than eight hundred themes under the broad category of physical, social, economic, environmental disciplines. It has the largest repository of spatial and non-spatial data processed with greater accuracy for delivering good quality products. To ensure precision and value addition, NATMO keeps pace with the most modern technologies viz. GIS, GPS and Remote sensing.

Main Functions of this organization are:

- *Compilation of the National Atlas of India in Hindi, English and other regional languages.*
- *Preparation of thematic maps based on socio-economic, physical, cultural, environmental, demographic and other issues.*
- *Preparation of maps/atlasses for visually impaired.*
- *Digital mapping and training using Remote sensing, GPS and GIS technology.*
- *Training*
- *Research & Development*

About SAIARD

South Asian Institute for Advanced Research and Development (SAIARD), is a MSME (Govt. of India) certified, premier research institution, has been formed in Kolkata with a motto to spread the arena of research throughout the world particularly focusing on the major issues of the South Asian region. SAIARD, a Research and Knowledge hub, has started its journey with a broad vision and objectives to promote research, advocacy, education and innovative ideas through publication, various outreach programmes, collaborations and partnerships for sustainable and cognitive development of this region. The basic purpose of this institution is to focus on the all-round academic development especially for our students to find out a platform for their future endeavours. For that purpose, SAIARD adopts a community based approach through various training, education, awareness and entrepreneurship programmes, enriching with the modern phase of technological innovations. SAIARD emphasizes more on policy based research interventions on multi-disciplinary issues related to environment and socio-economic aspects and sharing far-seeing ideas for the betterment of the society and humanity.

GIS

A Geographic Information System (GIS) is a computer-based tool for mapping and analysing feature events on earth. GIS technology integrates common database operations, such as query and statistical analysis, with maps. GIS manages location-based information and provides tools for display and analysis of various statistics, including population characteristics, economic development opportunities, and vegetation types. GIS allows you to link databases and maps to create dynamic displays. Additionally, it provides tools to visualize, query, and overlay those databases in ways not possible with traditional spread sheets. These abilities distinguish GIS from other information systems, and make it valuable to a wide range of public and private enterprises for explaining events, predicting outcomes, and planning strategies.

Course Content

Classes	Contents
Day-1	Basics concept of GIS, Overview of GIS, software, Data Input/Import, Geo-referencing: Shape files preparation, Point, Line, Polygon files, Editing, Error Correction.
Day-2	Image Geo-referencing (image to image, image to ground), metadata editing, projection, Datum using. Image classification, Image split/cropping, Image Mosaicking,
Day-3	Creation of Thematic map, Create annotation, Layout generation. Surface model and surface analysis: TIN/DEM creation, slope/aspect, hill shade, view shade.
Day-4	Advanced Geospatial Analysis: Arc Scan- Automated R2V conversion, Geo-processing, Network analysis, Suitable site finding, shortest path analysis.
Day-5	Identification of Spatial analyst tools: Density, distance, interpolation, map algebra, hydrology, re-class and surface toolset

• Timing of the Classes: 11:00 a.m. - 5:00 p.m.

- Total no. of seats: 50
- Registration Fees (INR): 2500/-
- Last Date of Registration: 20th July, 2019

How to Apply

Participants have to pay their registration fees in the given bank account and send the filled in application form or type the same in the mail body along with the payment slip in the following email id ncwpd19@gmail.com

Bank Details

Name of the Bank: **SBI**
Branch: **Baghajatin Station Road Branch**
Beneficiary A/C Name: **SAIARD**
A/C No: **38377901244**
IFSC Code: **SBIN0016629**

Points to Remember

- Participants have to bring their own laptop & mouse. Except that no external hard disk will be allowed.
- No accommodation will be provided for the outstation candidates.
- Participants have to bring any of their ID proof.
- Participants have to show the confirmation mail/message at the registration desk at the time of registration
- Certificates will be provided on behalf of SAIARD and NATMO.

For Details

www.saiard.co.in
www.natmo.gov.in
+91- 8777433044, +91-9883629435

REGISTRATION FORM

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Name (In block letter):

Institution:

Designation:

Mobile:

Email:

Payment Details:

Bank Name:

Amount:

Transaction ID:

Date:

Signature with date