



21 Hrs. Online Certificate Course on



& Analytic

Organised by

International Institute of Geospatial Science and Technology (IIGST)

(A constituent unit of SAIARD)

21 – 30 August 2021

Keynote

In India's recent journey of sustainable economic growth knowledge has been identified as one of the key drivers. In this odyssey India has adopted a new information regime through its 'Digital India' program to support good governance sustainable development goals and empowerment of its citizens. The challenges of this developmental path are inclusiveness transparency efficiency and productivity while balancing economic growth and sustainable development. Over the last three decades geospatial technologies have proven to be an effective enabler to meet these challenges.

In India's evolving geospatial ecosystem the current focus is on improving the public access in the provision of geospatial data and information through institutional strengthening for enhancing the performance of organizations. In this context developing technical capacity at the individual level remains the key factor for the success of this change process.

Recognizing the above needs the goal of the International Institute of Geospatial Science & Technology (IIGST) a constituent unit of SAIARD has taken this initiative to develop national capacity for geospatial science and technology development through diverse programs in collaboration with various partner organizations working in those fields.

Mission

Promoting geospatial science and technology policy solution capacity building entrepreneurship and cooperation for sustainable socio-economic development at all levels of governance.

Objectives

- ☐ Promotion of R&D in emerging areas of geospatial science and technology.
- ☐ Development of geospatial solutions for sustainable socio-economic growth as well as Sustainable Development Goals (SDGs).
- ☐ Build knowledge and adaptation capacity of geospatial technologies at various levels of governance in collaboration with academia and user agencies.
- ☐ Capacity building in teaching research development and use of geospatial technologies.
- ☐ Promote the use of open source geospatial technologies.
- ☐ To encourage and nurture innovation among the youth of our country through the Geo Innovation Challenge and Promote networking of government academic research and industrial organizations.

Target Audiences

College and University Faculties Research Scholars Students Govt. officials Industry/Corporate.



Introduction to Geographical Information System & Open Source GIS Software



Explore different tools for clipping, boundary creation, identification of suitable place and many more in Q-GIS



Perform Georeferencing in Q-GIS, Coordinate System, Assign coordinate system to a data in Q-GIS



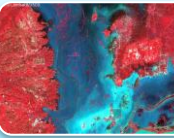
Image Classification Types , Class Editing , Post Classification Analysis



Create New shape file, Vector data and how to create or delete field in attribute table in Q-GIS



Use of Analysis tool and Geometry tool in Q-GIS



Use of smartphone GNSS app to collect absolute location



Google Earth Engine Plugin in QGIS



Image registration & Vector layer mapping & editing in Q-GIS



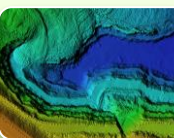
Work with raster data for surface analysis in Q-GIS



How to import CSV file to attribute file in Q-GIS



Explore data management tool and research tool in Q-GIS



Thematic Mapping, editing and layout preparation in Q-GIS



Preparation Of Reflectance Libraries of LULC Features across Different Image Bands Using QGIS



Spatial and attribute query in Q-GIS, Creation of Points and Buffer in Q-GIS



QGIS Programming with PYTHON



Integration of Google Earth Engine to Q-GIS

Knowledge Support

Areas to be covered are:

- ✓ Open Source Softwares
- ✓ Mobile GNSS
- ✓ Cartographic Advancement appliance
- ✓ Image Classification & Editing
- ✓ Python Programming
- ✓ Exposures With Geospatial Technology
- ✓ Statistical Thematic Mapping

The course curriculum followed

- ✓ This 21 hrs capacity building program includes:
- ✓ **Theory + practical (hands on sessions)** with open source GIS software's,
- ✓ Interactive sessions with experts and project work.
- ✓ Tutorials with data Teaching and learning resources

The main features of this program is :

- ☑ Structured curriculum with a tentative program schedule.

The Resource Persons from:

- ✓ IIGST
- ✓ DST, Govt of West Bengal
- ✓ BIT Mesra, Ranchi
- ✓ DTU, Delhi

Class Timing: 3.00 – 5.00 p.m. per day

Organizing Team

Chief Patron

BRC, Founder Chairman, IIGST

Patron

Mr Arindam Ray, Program Director, IIGST

Organising Secretaries

Mr Manas Hudait, Training Director, IIGST
Mrs. Moonmoon Sen, Faculty, IIGST

Technical Teams

Ms. Sumana Sarkar
Ms. Sneha Chakraborty
Mr. Sudip Dey

Application Link: <https://bit.ly/3ADGSyq>

Registration fees:

700/- (Non-refundable)

Bank Details:

*Just scan the QR code & pay or
pay in the given bank account*

Bank- SBI

Account No- 38377901244

IFSC Code- SBIN0016629

Beneficiary Name- SAIARD



E-Certificate will be provided on behalf of IIGST

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