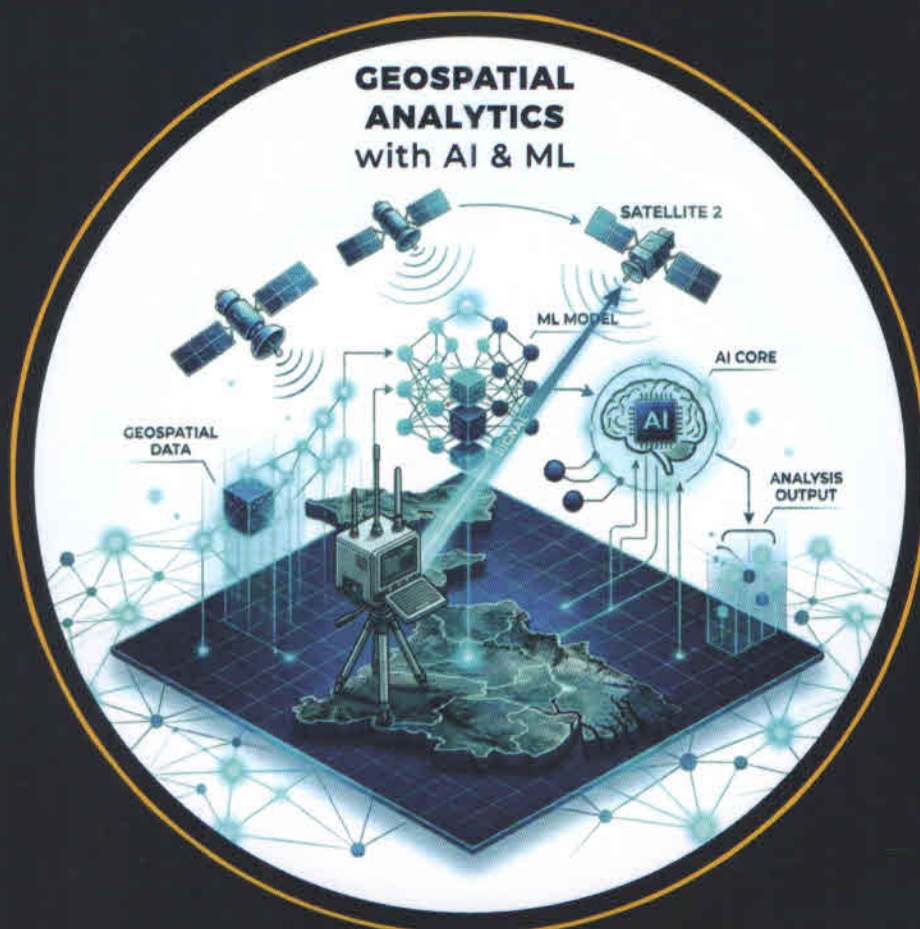




Government of West Bengal
Department of Science and Technology
and Biotechnology

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Advanced Course
on
GEOSPATIAL ANALYTICS
along with **AI** and **ML**

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22nd to 25th September, 2026

Website: <https://dstbt.bangla.gov.in>

Importance of Geoinformatics

The integration of Geographic Information System (GIS) and Remote Sensing (RS) has emerged as an indispensable tool for planners and decision-makers, enabling the modeling and visualization of diverse, often unrelated themes to address complex challenges. This powerful combination has facilitated innovative solutions in smart agriculture, flood mapping, rural development, urban planning, watershed management, drainage planning, drinking water resource identification, road construction in hilly terrains, and disaster management. Advances in geospatial technologies, coupled with the integration of emerging tools and enriched datasets, have significantly enhanced decision-making and governance. The data-intensive nature of the geospatial ecosystem, emphasizing accuracy, consistency, and accessibility, continues to drive sustainable development and improve the delivery of public services across various sectors.

Geospatial Analytics along with AI and ML

Geospatial AI blends Artificial Intelligence with geospatial data to automate feature extraction, reveal spatial patterns, and deliver predictive, location-aware insights for faster and better decisions across sectors. Its core objectives are to accelerate spatial data production, improve the forecasting of geospatial phenomena, enable real-time situational awareness, integrate multi-source data pipelines, and operationalize responsible AI at scale. Key applications span urban planning and smart cities, disaster risk reduction and rapid response, environmental monitoring and climate adaptation, precision agriculture, public health intelligence, transportation and logistics optimization, retail and site selection, defense and security, and energy and utilities asset management. By uniting modern GIS platforms with machine learning and deep learning applied to Satellite and Drone imagery, LiDAR, IoT streams, and tabular data with location information, GeoAI turns massive datasets into actionable intelligence that improves outcomes, reduces risk, and scales efficiently from projects to enterprise level operations.

Objectives of Advanced Course on Geospatial Analytics along with AI and ML

Taking the above into consideration, the Department of Science and Technology and Biotechnology, GoWB will organize an Advanced Course on 'Geospatial Analytics along with AI and ML' in September, 2026. The objective of the course is to acquaint the participants with Applications of Geospatial AI across different domains.

Note: The Course is meant for in-service Govt. employees / faculties of govt. sponsored Colleges/ Universities having basic knowledge of Remote Sensing and GIS.

Duration of the Course

22nd September, 2026 – 25th September, 2026.

Broad Topics of the Course

Basics of Geospatial technologies, Machine Learning, Deep Learning and Artificial Intelligence including Generative AI and their applications.

Course Fee

Nil

Total no. of Seats

20 nos.

Eligibility Criteria

I. A permanent/temporary/contractual employee of any Department of the State Govt./ Undertaking/ Parastatal/ Statutory Body

or

Faculty of any Govt. / Govt. Sponsored College/Training Institute/ University

having a Basic knowledge of RS and GIS technologies, duly nominated by his/ her head of the Organisation, will be considered for participation.

II. If the no. of applications exceeds the availability of the seats, then an initiative will be taken to accommodate at least one candidate from each Organisation selected from the top of the list. The nominating authorities are

requested to mention the order of preference in their nomination letters.

III. The list of the selected candidates will be uploaded on the Departmental website **dstbt.bangla.gov.in**. Applicants are requested to follow the Departmental website from 16th September, 2026 onwards.

Other Stipulations

- I. No accommodation will be arranged by the DSTBT, Govt. West Bengal for outstation candidates.
- II. No TA/DA will be provided to the participants for attending the course.

Sessions & Classes

- I. The Course will be conducted from 22nd September, 2026 to 25th September 2026.
- II. The classes will commence at 11:00 AM and will continue up to 5:00 PM every day.
- III. On successful completion of the course, the participants will be awarded Certificates.

Last date for receipt of nomination duly forwarded by the nominating authority in both hard copy as well as soft copy: 7th September, 2026.

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