

Government of West Bengal
Department of Science and Technology and Biotechnology
Geoinformatics and Remote sensing Cell

Admission Notice

Post Graduate Diploma in Geoinformatics (2025-26)

No: BB-297/313943 e-office

Date: 12.06.2025

Applications are invited from Indian nationals for admission to the one-year Post Graduate Diploma in Geoinformatics, 2025-26, conducted by the Department of Science and Technology and Biotechnology, Government of West Bengal in collaboration with Maulana Abul Kalam Azad University of Technology, Haringhata, Nadia.

The potential candidates having a Masters' Degree in Geography/ Geology/ Environmental Science/ Physics/ Chemistry/ Mathematics or equivalent

or

B.E./ B.Tech. in Civil Engineering/ IT or equivalent
are requested to apply with all relevant testimonials within **4th July, 2025 up to 5 p.m.**

Information Brochure along with Application Form is available in the Departmental website dstbt.bangla.gov.in. The intending candidates are to download the same, conduct comprehensive review of all the terms and conditions and send the filled-in application form along with self attested copies of all testimonials to the Department of Science and Technology and Biotechnology, GoWB via email (wbscst.rstrg@gmail.com) within the stipulated period.

Detailed eligibility criteria including the terms and conditions are available in the Information Brochure.

For any query, pl send an email to wbscst.rstrg@gmail.com.


Special Secretary 12.6.25



POST GRADUATION DIPLOMA IN GEOINFORMATICS

**CONDUCTED
JOINTLY BY**

**Department of Science and Technology
and Biotechnology
Government of West Bengal**

**SESSION
2025 - 2026**

AND

**MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL**



**Maulana Abul Kalam Azad
University of Technology
Haringhata, Nadia**

**Bikash Bhavan, 4th floor (East block),
Sector I, Salt Lake, Kolkata 700091**

Website: www.dstbt.bangla.gov.in

1. Importance of Geoinformatics

In recent years, the application of Geographic Information System (GIS) with inputs from Remote Sensing (RS) has become an essential tool for planners and decision-makers. The use of GIS for integration and modelling of multiple themes, apparently uncorrelated at times, has been helping decision makers for visualization of information in newer perspectives and addressing the challenges in smart agriculture, flood mapping, rural development, urban planning, watershed modelling and management, drainage planning, finding drinking water resources, development of roads in hilly terrain, disaster management etc.

2. Geoinformatics and Remote Sensing Cell

The Geo-informatics and Remote Sensing Cell of the Department of Science and Technology and Biotechnology, Government of West Bengal has established its credential as a pioneering organization in generating Remote Sensing and GIS-based datasets for sharing, collaboration, location-based analytics and creating decision support systems for different organizations at the National and State levels.

Over the period of 30 years, it has generated voluminous geospatial datasets on land use/land cover, forest areas, water resources, disaster management, drainage system, transportation network, health management, climate change impact etc integrated with ancillary information, meteorological data and other socio-economic data to usher potential inputs in informed decision making for developmental planning of different line Departments.

3. Opportunities

Geospatial technologies have made inroads across various sectors in the public as well as private domains. In many Govt. schemes, the GIS-based management system has been utilized for project development, asset management, monitoring the outcome and others. As a result, the scope of employment of GIS experts has increased tremendously in Govt. sectors. A phenomenal rise has been noticed in this sector.

Also, with the implementation of the National Geospatial Policy, 2022, the restrictions on procurement, sharing and dissemination of geospatial data have been liberalized which has given a sharp rise in geospatial industries and job opportunities have been created in the field of surveying, mapping, image processing, photogrammetry etc.

4. About Course

Considering the growing need for skilled manpower in this sector, the Department of Science and Technology and Biotechnology, GoWB has been running the one-year PG Diploma course in

Geoinformatics since 2008 for human resource development using the experience of the potential Scientists of this Department.

The said PG Diploma Course has been upgraded and combined with two years M.Tech. course in Geoinformatics in collaboration with MAKAUT in 2019. The course covers the use of state-of-the-art technologies in the applications of Remote Sensing, GIS and GPS.

Students are provided intensive hands-on training on various aspects of GIS, Digital Image Processing Software together with GPS, DGPS Digital Photogrammetry etc. The applications of programming languages, Database Management Systems, and Web Technology, Machine Learning and Big data Analytics in Geoinformatics are important components of the course.

5. Course Content (Duration 1 year)

First Semester (6 months)

i. Principles of Remote Sensing and Photogrammetry	vi. Remote Sensing and Photogrammetry Lab
ii. Principles of Geographic Information Systems (GIS)	vii. GIS Lab
iii. Basics of Global Navigation Satellite System (GNSS) and Cartography & Digital Mapping	viii. Basics of GNSS, Cartography & Digital Mapping Lab
iv. Mathematical Methods and Scientific Computing for Geospatial Data Analysis	ix. Mathematical Methods and Scientific Computing for Geospatial Data Analysis Lab
v. Recent Trends in Geoinformatics Machine Learning and Big Data	x. Recent Trends in Geoinformatics Lab

Second Semester (6 months)

xi. Spatial Database, Analysis and Modeling	xv. Database Analysis Lab
xii. Satellite Image Processing	xvi. Satellite Image Processing Lab
xiii. Applications of Geoinformatics / Advanced Remote Sensing	xvii. Application of Geoinformatics Lab / Advanced Remote Sensing Lab

xiv. Geoinformatics in Water Resources Management / Environmental Management System	xviii. Geoinformatics in Water Resources Management Lab / Environmental Management System Lab
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6. *Course Fee*

The Course fee for each semester is Rs. 22,500/- and the total course fee for the two-Semester course is Rs. 45,000/-. The selected candidates are to deposit the course fee to the account of the WBSCST within the stipulated period.

7. *Eligibility Criteria*

For admission to the one-year PG Diploma Course in Geoinformatics, the students should secure a **minimum of 60% marks** (55% for reserved categories) at the Master's level or a Bachelor's degree in Engineering. Students with a Master's degree from a recognized University / Institute in **Physics, Mathematics, Chemistry, Geography, Geology, Geophysics, Agriculture, Atmospheric Science, RS&GIS, Environmental Science, Botany, Zoology, Forestry, Marine Science, Computer Applications** or equivalent

Or

Bachelor's degree from a recognized University/Institute in **Civil Engineering, Computer Science, Information Technology, Mining Engineering, Surveying, Architecture, Regional Planning, Electronics and Communication** or equivalent will be considered for admission to the **P.G Diploma Course in Geoinformatics**.

8. *Submission of Application Form*

i. Information Brochure along with the Application Form is to be downloaded from the Departmental website **www.dstbt.bangla.gov.in** and the filled-in Application Form (hard copy) with the self-attested copies of all testimonials is to be sent to **Department of Science and Technology and Biotechnology, Bikash Bhavan, 4th floor, Sector I, Salt Lake, Kolkata 700091** and the same through email (**wbscst.rstrg@gmail.com**) within 4th July, 2025 upto 5p.m. Application received after the last date will be summarily rejected.

ii. Scanned Copy of the Documents to be submitted with the Application Form:

- Self-attested copy of Admit Card of Secondary Examination (Class-X) for verification of Date of Birth
- Self-attested copy of Mark sheet of Secondary Examination (Class-X)
- Self-attested copy of Certificate of Secondary Examination (Class-X)

- d. Self-attested copy of Mark-sheet of Higher Secondary Examination (Class-XII)
 - e. Self-attested copy of Certificate of Higher Secondary Examination (Class-XII)
 - f. Self-attested copy of Mark-sheet of Graduation
 - g. Self-attested copy of Certificate of Graduation
 - h. Self-attested copy of Mark-sheet of Post-Graduation
 - I. Self-attested copy of Certificate of Post-Graduation
 - j. Self-attested copy of Aadhar Card/Voter Identity Card
 - k. Self-attested copy of valid caste certificate issued by the competent authority of the Government of West Bengal (if applicable)
- iii. Recent Passport size photograph with a full frontal view is to be affixed on the application Form
- iv. Originals are to be produced by the selected candidates at the time of joining. Notwithstanding anything expressed in this Brochure or application form, the decision of the Competent Authority on all matters of admission will be treated as final.
- v. Reservations of seats -- as per extant rule.

10. Selection Procedure

- i. The Admission test of all suitable candidates will be taken online on the stipulated date.
- ii. The admission test will be of MCQ type and it will be divided into four groups covering basic knowledge in Remote Sensing & GIS, Physics, Earth Sciences and Mathematics, and the students have to answer from any three groups.
- iii. The selection will be made on the basis of the weightage of marks obtained by the student in the Admission Test (60 marks) and Academic score (40 Marks).
- iv. The selected candidates will be informed through Email for admission and deposition of the stipulated course fee within the prescribed period. All candidates are requested to follow the Departmental website to get timely information even if they do not get email due to technical reason.

11. Cancellation of candidature

Submission of false/incorrect information or suppression of facts will summarily lead to cancellation of candidature at any stage of selection, even if the candidate is admitted to the course. In that case, the course fee deposited by the candidate, if any, will be forfeited.

12. Important Dates for admission

i. Last Date of submission of filled-in Application Form:	4 th July, 2025 upto 5p.m.
ii. Admission Test (tentative):	16 th July, 2025
iii. Tentative date of publication of Result:	28 th July, 2025
iv. Admission from Merit List:	8 th August, 2025
v. Admission from Waiting List	14 th August, 2025

Note: If the candidates incorporated in the waiting list are willing to take admission, they are requested to report to the Course Coordinator on 8th August, 2025 within 2.00 P.M. online. Admission will be offered to the candidates present on that date and time as per their rank in the waiting list to fill up the vacant seats, if any. Names of the selected candidates will be published on the Departmental website tentatively by 28th July, 2025.

13. Session 2025-26

- i. The academic session will start from 1st week of September, 2025 and is likely to be over by August, 2026.
- ii. The theoretical classes will be taken from 11.00 AM to 2.00 PM and the lab training will be arranged from 2.30 PM to 5.30 PM respectively.

For any query, please contact 033 -2569 3720 or send an email to wbscst.rstrg@gmail.com

10. Address for communication

City: _____ Pin: _____ State: _____

Phone No: _____ Email Id: _____

11. Declaration: I do hereby declare that all the information given by me in this application are true and correct to the best of my knowledge and belief. I also note that if any of the above statements is found to be incorrect or false or any information or particulars have been suppressed or omitted therefrom, my candidature will be liable to cancelled and I shall not be entitled to get refund of any fee paid by me.

Signature of Candidate: _____

Date: _____ Place : _____