

Government of West Bengal
Department of Science and Technology and Biotechnology
West Bengal State Council of Science and Technology

Admission Notice
Post Graduate Diploma in Geoinformatics (2021-22)
(Jointly organized with Maulana Abul Kalam Azad University of Technology)

One year full time PG Diploma in Geoinformatics Course is conducted jointly by Department of Science and Technology and Biotechnology, Government of West Bengal through the West Bengal State Council of Science and Technology and Maulana Abul Kalam Azad university of Technology, Haringhta, Nadia. Applications are invited from Indian nationals for admission to this course (2021-22) with a Masters Degree in relevant branches of Science/Geography or Bachelors degree (B.E., B.Tech.) in relevant branches as stated in the information brochure.

Information Brochure along with Application Form may be downloaded from Departmental website www.wbdstbt.in. Last date of submission of filled-in Application Form with copies of all testimonials through email (wbscst.rstrg@gmail.com) is **30th July, 2021 by 4 pm.**

Details including eligibility criteria as stated in the brochure are given in **www.wbdstbt.in** website.

For any query, mail to: wbscst.rstrg@gmail.com



Post Graduate Diploma in Geoinformatics

2021-22

Conducted jointly by
Geoinformatics and Remote Sensing Cell
Department of Science and Technology and Biotechnology
Government of West Bengal

through

West Bengal State Council of Science & Technology
Bikash Bhavan (4th Floor)
Salt Lake, Kolkata- 700 091

and

MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



Maulana Abul Kalam Azad university of Technolgy
Haringhata, Nadia

Geographic Information System

Global Navigation Satellite System

Scientific Computing

Photogrammetry

Geoinformatics

Machine Learning

Web Technology

Application Big Data

Remotesensing

Digital images

Spatial Database

Image Processing Analysis Cartography

Digital Mapping

spatial data

Modeling

Importance of Geoinformatics

In recent years the application of Geographical Information System (GIS) with input from Remote Sensing (RS) is becoming an essential tool for planners and decision makers. The use of GIS as a tool for integrating several themes, apparently uncorrelated at times, to arrive at a fruitful decision or for creating a model for an would be scenario or visualize “what happens if” situation has been helping decision makers to meet a challenge in solving many problems like flood mapping, rural development, watershed modeling and management, finding drinking water resources, development of new roads in hilly terrain, disaster management etc.

Geoinformatics & Remote Sensing Cell

The Geoinformatics & Remote Sensing Cell, Science and Technology and Biotechnology, Government of West Bengal has established its credential as a pioneer organization in generating RS & GIS database for spatial information in various scales for land, water resources as well as various applications for developmental planning activities. The Department has also undertaken several projects at National and State level to meet the needs of the various National level and State level Stakeholders. It has an energetic group of young specialists in the field of GIS and Remote Sensing and also has a large archive of data and satellite imageries.

Opportunities

There is a growing need to have trained manpower to deal with the GIS and spatial data collection, assimilation and analysis. Besides many Industries, Government and private organizations are recruiting persons with knowledge in Geoinformatics in various fields like urban planning, watershed management, forestry, water resource management. The Science and Technology and Biotechnology Department, Government of West Bengal through Geoinformatics & RS Cell, implements a number of projects on applications of RS & GIS. PG Diploma in Geoinformatics is a desirable qualification for recruitment of project scientists for these projects however, essential qualifications may vary from project to project.

About Course

Keeping this in view, Department of Science and Technology and Biotechnology, Government of West Bengal is offering one year PG Diploma Course in Geoinformatics since 2008 for human resource development in this field. The Course has been upgraded into a Combined One Year PG Diploma/ Two Years M.Tech. in Geoinformatics course in collaboration with MAKAUT since 2019. The course covers use of state-of-the-art technologies in application fields of Remote Sensing, GIS and GPS.

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

Course Content (Duration 1 year)

First Semester (6 months)

1. Principles of Remote Sensing and Photogrammetry
2. Principles of Geographic Information Systems (GIS)
3. Basics of Global Navigation Satellite System (GNSS) and Cartography & Digital Mapping
4. Mathematical Methods and Scientific Computing for Geospatial Data Analysis
5. Recent Trends in Geoinformatics (Machine Learning and Big Data)
6. Remote Sensing and Photogrammetry Lab
7. GIS Lab
8. Basics of GNSS, Cartography & Digital Mapping Lab
9. Web Technology Lab
10. Programming Lab

Second Semester (6 months)

- | | |
|--|---------------------------------------|
| 11. Spatial Database, Analysis and Modeling | 16. Database Analysis Lab |
| 12. Satellite Image Processing | 17. Satellite Image Processing Lab |
| 13. Applications of Geoinformatics | 18. Application of Geoinformatics Lab |
| 14. Geoinformatics in Water Resources Management | 19. Water Resources Management Lab |
| Or Geoinformatics in Resource Management | or Resource Management Lab |
| Or Mission Projects in India – an overview | 20. Project Work |

Course Fee

Per Semester course fee is Rs. 22,500/- and the total course fee for the two-Semester course is Rs. 45,000/-

Qualification & Eligibility Criteria

1. Students with a Master's degree from a recognized university/institute in Physics, Mathematics, Geology, Geophysics, Geography, Agriculture, Atmospheric Science, RS&GIS, Environmental Science, Botany, Forestry, Marine Science, Computer Application, 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 one year PG Diploma course in Geoinformatics.
2. A student should secure at least a minimum of 55% (50% for SC/ST) marks in the Master's level or in the Bachelor's degree in engineering and with at least two first classes/ divisions or 60% (55% for SC/ST) in the master's/ pre-master's level of examinations.

Admission Procedure

1. The selection will be made on the basis of weightage of marks on Admission Test (60%) and Academic Background (40%).
2. The Admission Test will be of 60 marks. The Question Paper of MCQ type will be divided into four groups covering basic knowledge on Remote Sensing & GIS, Physics, Earth Sciences and Mathematics, and students have to answer from any three groups.

Advertisement, Information Brochure & Application Form

1. Information Brochure along with application form may be downloaded from the Departmental website www.wbdstbt.in and submission of filled-in Application Form with attested copies of all testimonials through email (wbcst.rstrg@gmail.com).
2. Advertisement for admission into this course are made through one English and one Bengali daily Newspaper and in the Departmental website www.wbdstbt.in.
3. Candidates appearing in the qualifying examination in 2021 may also apply. In such a circumstance, last published result of the qualifying degree will be considered for calculation of academic score for admission. Admission will be made provisional for candidates appearing in the final examination in the year of admission. In case, mark-sheet of the qualifying examination is not submitted by the end of September of the ongoing academic session, or the candidate fails to secure the qualifying marks for the admission, the admission will be cancelled without any refund of fees.
4. Reservations of seats -- as per rule.
5. In all cases the decision of the Competent Authority of this Department will be final.

Cancellation of candidature

Submission of false / incorrect information or suppression of facts will summarily lead to cancellation of candidature at any stage even being selected/ admitted. At any stage, if a Candidate is found to be not eligible, his/ her Candidature may be cancelled.

Sessions & Classes for Session 2021-22

1. The academic session will start from month of September, 2021 and is likely to be over by July, 2022.
2. The theoretical classes will be held tentatively from 11.00 AM to 2.00 PM and the lab classes will be held from 2.30 PM to 5.30 PM. All classes will be held online till normalcy restores.

Important Dates

Distribution of forms	: Upto 30 th July, 2021
Last Date of receipt of filled-in Application Form	: 30 th July, 2021 by 4:00 pm
Admission Test	: 14 th August, 2021 from 12.30 pm
Tentative date of publication of Result	: 27 th August, 2021
Admission from Merit List	: 3 rd September, 2021
Admission from Waiting List*	: 8 th September, 2021
Commencement of Classes	: 9 th September, 2021

*All candidates in the waiting list willing to take admission are requested to report on 8th September, 2021 within 2.00 P.M. in an online meeting. Admission will be offered to the candidates present on that date and time as per their rank in the waiting list to fill the remaining vacant seats. Names of selected candidates will be displayed in Departmental Notice Board/Departmental website only. No letters will be sent.

The filled in application form must reach the following address on or before 30th July, 2021.

**The Course Coordinator,
Training Programmes on Remote Sensing & GIS,
Geoinformatics and Remote Sensing Cell,
Department of Science and Technology and Biotechnology, Government of West Bengal,
Bikash Bhavan (4th Floor), Salt Lake,
Kolkata 700 091**

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

Note:

Attested photocopies of mark sheets of Class X, Class XII, Graduation, Post-Graduation (if available) are to be enclosed (appearing candidates should submit the last published result of the qualifying examination). Originals are to be produced at the time of joining. Application form completed in all respects should be submitted before the last date of submission of forms as specified. Notwithstanding anything expressed in this Brochure or in application form, the decision of the Competent Authority on all matters of admission will be treated as final.

*Admission Test: All applicants will be allowed to appear in the admission Test. However if any candidate does not have minimum eligibility criteria he/ she will not be considered during preparation of merit list.

11. Address for communication

City: _____ Pin: _____ State: _____

Phone: _____ Email: _____

Paste your
passport size
photograph and
sign across it
(do not sign
across the face)

12. Declaration: I hereby declare that all the information given by me in this application is true and correct to the best of my knowledge and belief. I also note that if any of the above statements are found to be incorrect or false or any information or particulars have been suppressed or omitted there from, I am liable to be disqualified. In the event of information being found incorrect or misleading, my candidature shall be liable to cancellation at any time and I shall not be entitled to get refund of any fee paid by me.

Signature of Candidate: _____ Date: _____ Place : _____

13. Undertaking by the Candidate:

I shall comply with the West Bengal State Council of Science & Technology (Council) rules, standards and instructions for student behaviour as notified from time to time. I hereby waive and release all claims against the Council representatives at a time when I am not under the direct supervision of the Council or its representatives or arising out of my failure to remain under such supervision or to comply with such rules, standards and instructions, and I agree to indemnify the Council and its representatives against any consequences thereof. I agree that the Council shall have the right to enforce appropriate standards of conduct and that it may at any time terminate my participation in the Council's programme for failure to maintain these standards or for any actions or conduct which the Council considers to be incompatible with the interest, harmony, comfort and welfare of other students. All reference herein to the parents of the applicant shall include the legal guardian or other adult responsible for the applicant. I agree that in case of any legal dispute concerning admission procedures, the same shall be subject to exclusive jurisdiction of Courts at Kolkata, This agreement shall take effect from the time I am accepted by and confirmed in enrollment in the Course.

Signature of Candidate: _____ Date: _____ Place : _____

14. Declaration by the Parent /Guardian:

I certify that I am the parent or legal guardian of the above applicant and that I have read the foregoing agreement. I hereby guarantee to the Council payment of all fees and other sums due at any time to the Council by the applicant. I agree that in case of any legal dispute concerning admission procedures, the same shall be subject to exclusive Jurisdiction of Courts at Kolkata.

Signature of Parent/ Legal Guardian: _____ Date: _____ Place: _____

Occupation of Signatory: _____ Relationship with the candidate: _____

Place: _____ Date: _____

Notwithstanding anything expressed in the Brochure or in application form, the decision of the competent authority of this Department on all matters of admission will be treated as final.

-----FOR OFFICE USE ONLY-----

Admit Card
Govt. of West Bengal
Department of Science and Technology and Biotechnology
Geoinformatics and Remote Sensing Cell
PG DIPLOMA IN GEOINFORMATICS
Admission Test – PGD 2021-22

Applicant's Copy

Form No.

Name of the Candidate : _____

Father's/ Guardian's Name: _____

Address: _____

Date of Birth : _____ (dd/mm/year)

Date of Test : 14.08.2021

Time of Test: 12:30 pm

Venue:

Paste your
passport size
photograph and
sign across it
(do not sign
across the face)

Signature of the Candidate

- Note: 1. Candidates are requested to fill in the Admit Card and submit one copy with the Application Form and keep one copy with him/her
2. The applicant's copy of the admit card is to be retained by the applicant and the Office copy of the admit card is to be sent with the application form.
3. Candidates are requested to bring the Admit Card along with any original photo I/D card for entering the Examination Halls.
4. All applicants are allowed to appear in the admission test. However, selection of candidates will be done from the eligible candidates only.

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CERTIFICATE OF SPONSORSHIP
(To be filled in by Sponsored Candidates only)

Certified that Dr./ Shri/ Smt./Kum. _____

(designation) has been _____

Officially deputed for the one year PG Diploma course in Geoinformatics at the Geoinformatics & Remote Sensing Cell, Department of Science and Technology and Biotechnology, Government of West Bengal, Bikash Bhavan, Salt Lake, Kolkata – 700091 scheduled during

_____ by

_____ which is a Central Government/ State
(Name of the sponsoring organization)

Government Department/ Organization / Academic Institute (college/ university) /
Autonomous Organisation/ Any other _____ (pl. specify)

The Account Payee Demand Draft bearing No. _____ dated _____

for Rs. _____, towards the fee for the regular One Year course, drawn in favour of **“Member Secretary, West Bengal State Council of Science & Technology”** payable at **“Kolkata”**, is enclosed.

Signature of sponsoring authority :

Date :

Name :

Place :

Designation :

Official Seal :

Note: Self-sponsored employed persons have to submit a letter from his/ her employer that he/she has been allowed to attend the course.