Government of West Bengal
Department of Higher Education, Science and Technology and Biotechnology

Admission Notice
Post Graduate Diploma in Geoinformatics (2017-18)

Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal conducts one year full time PG Diploma in Geoinformatics Course through the West Bengal State Council of Science & Technology. The course is affiliated to the Maulana Abul Kalam Azad University of Technology. Applications are invited from Indian nationals for admission to this course (2017-18) 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 collected from above mentioned office at Bikash Bhavan (4th floor), Salt Lake, Kolkata-700091, from **22nd May 2017 to 21st June 2017** on payment of Rs. 300/- by cash/ Cheque/ DD or may be downloaded from **www.wbhed.gov.in, www.wb.gov.in, www.dstwb-council.gov.in websites.** Last date of receipt of filled in Application Form with attested copies of all testimonials is **21st June 2017 by 4 pm**. There is a provision of two full Merit-cum-Means Scholarships.

Details including eligibility criteria as stated in the brochure are given in **www.wbhed.gov.in, www.wb.gov.in, www.dstwb-council.gov.in websites**.

For any query, contact the Course Coordinator: Phone (033) 23402705/2569 3736, 2569 3722, 2569 3732

If Application Form downloaded from website is used a DD of Rs. 300/- in favour of the Member Secretary, WBSCST may be enclosed during submission of the filled in Application Form.

Government of West Bengal
Department of Higher Education, Science and Technology and Biotechnology

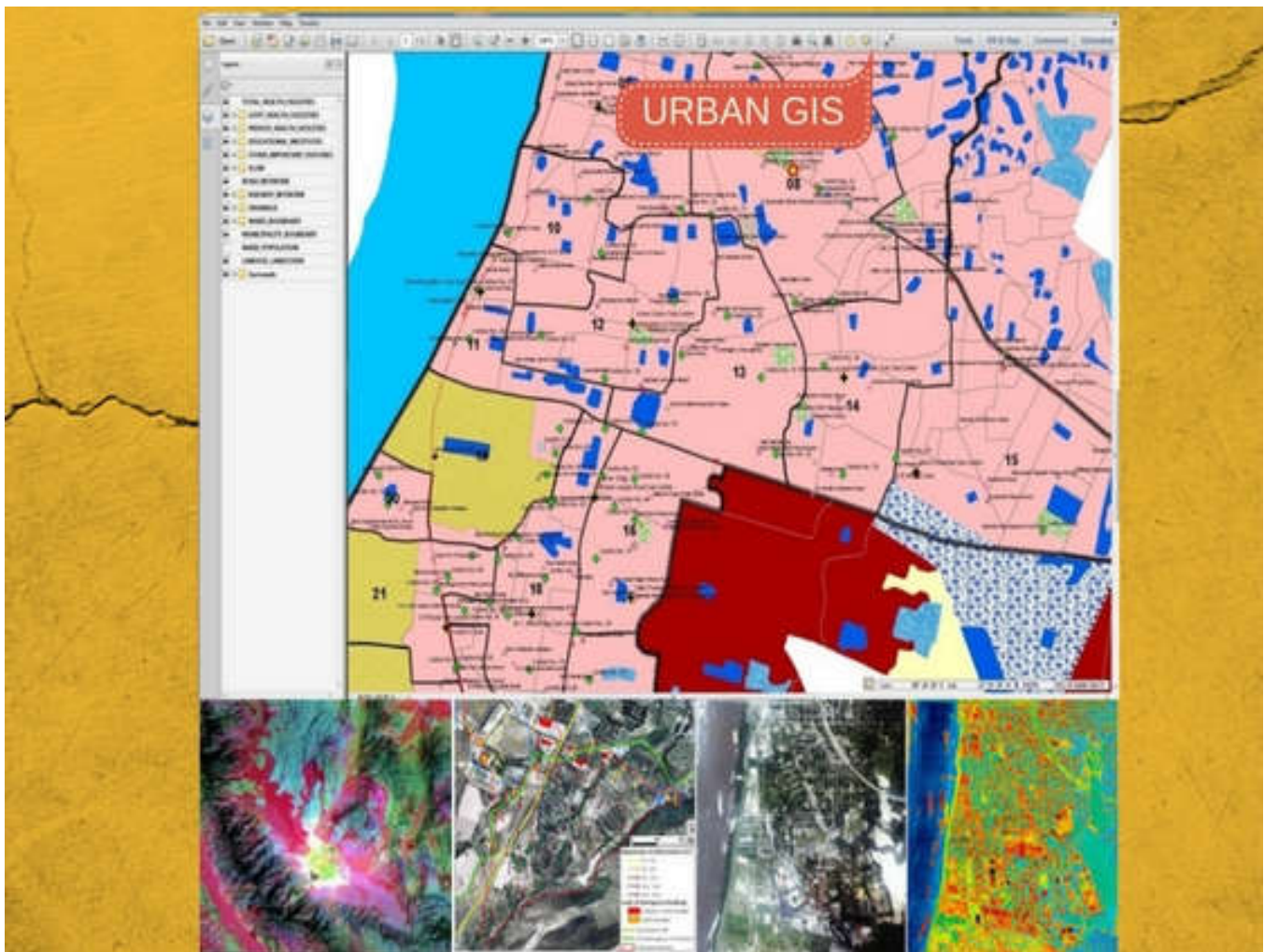*conducts*

Post Graduate Diploma in Geoinformatics

(2017-2018)

through

West Bengal State Council of Science & Technology

Bikash Bhavan (4th Floor) ,Salt Lake, Kolkata- 700 091

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, Department of Higher Education, 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

With the near future implementation of Spatial Data Infrastructure at National level (NSDI) and State level (SSDI) with District level (DSDI) and Block level (BSDI) supporting the SSDI at lower levels, 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. Geoinformatics & RS Cell, Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal implements number of projects on 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 Higher Education, 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. At present the total number of seats in the course is 12 including seats reserved for backward class candidates as per norm. The course is conducted through West Bengal State Council of Science & Technology and is affiliated to Maulana Abul Kalam Azad University of Technology (MAKAUT).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, DGPS and Digital Photogrammetry etc. The applications of programming languages, Database Management Systems, Web Technology in Geoinformatics are important components of the course.

Course Content (Duration 1 year)

First Semester (4 months)

1. Principles of Remote Sensing
2. Principles of Geographic Information Systems (GIS)
3. Cartography & Digital Mapping
4. Basics of Global Positioning System (GPS)
5. Fundamentals of Calculus, Vectors, Matrices & Statistics
6. Remote Sensing Lab
7. GIS Lab
8. Cartography Lab
9. GPS Lab
10. Programming Lab

Second Semester (4 months)

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

Third Semester (4 months)

21. Project Work	22. Grand Viva

Course Fee

Per Semester course fee is Rs. 15,000/- and the total course fee for the three Semester course is Rs. 45,000/-

Merit cum Means Scholarship

There is a provision of two full scholarships for needy and meritorious students, one each from SC/ST and general category. Candidates will be selected for the scholarship on the basis of fixed norms regarding merit and means. Minimum 60 % marks are to be obtained in 1st & 2nd Semester examinations of the course by such candidates for continuation of scholarship.

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%), Academic Background (20%) and Interview (20%).

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. Advertisement for admission into this course will be made through two daily Newspapers (one Bengali & one English) and in the Government of West Bengal website 'www.wbhed.gov.in, www.wb.gov.in, www.dstwb-council.gov.in.

2. Information Brochure along with application form may be collected from Geoinformatics and Remote Sensing Cell, Department of Higher Education, Science and Technology Biotechnology, Bikash Bhavan (4th Floor), Salt Lake, Kolkata- 700 091 on payment of Rs. 300/- by Cash or through Demand Draft in favour of the Member Secretary, West Bengal State Council of Science &

Technology, payable at Kolkata. If Application Form downloaded from banglarmukh.com is used a DD of Rs. 300/- in favour of the Member Secretary, West Bengal State Council of Science & Technology payable at Kolkata to be enclosed during submission of the filled in Application Form.

3. Candidates appearing in the qualifying examination in 2017 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 month 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. A person in professional service nominated by the Government employer or working as a faculty in a Government/ Government Sponsored College/ University may also be considered for admission into this course. Two seats are kept provisionally reserved for such candidates. Candidates sponsored by Govt. Departments/ College-Universities need not appear in the admission test. Self sponsored employed persons have to submit No Objection Certificate from the employer.

5. Reservations of seats -- as per rule.

6. 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.

Sessions & Classes for Session 2017-18
1. The academic session will start from 1st August, 2017 and is likely to be over by July, 2017.
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.

Important Dates
Distribution of forms:	22nd May-21st June, 2017
Last Date of receipt of filled in Application Form:	21st June, 2017by 4:00 PM
Publication of Short listed candidates for Admission Test:	4th July, 2017
Admission Test and Interview:	11th July, 2017 from 12.00 Noon
Tentative date of publication of Result:	21st July, 2017
Admission from Merit List:	25th July, 2017
Admission from Waiting List *:	27th July, 2017
Commencement of Classes:	1st August, 2017

*All candidates in the waiting list willing to take admission are requested to report the Course Coordinator within 27th July 2017 by 2.00 P.M. 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 short-listed candidates and final results etc. 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 21st June, 2017. The Course Coordinator/ Co-Coordinator, Training Programmes on Remote Sensing & GIS, Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal, Bikash Bhavan (4th Floor), Salt Lake, Kolkata 700 091

For any query, contact Dr. A.R.Ghosh, Course Coordinator & Dr. Kakali Das, Co-coordinator: Phone (033)2340 2705, 2569 3736, 2569 3722, 2569 3732

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.

Government of West Bengal
Department of Higher Education, Science and Technology and Biotechnology
West Bengal State Council of Science & Technology

Form No.
Received on

P.G. Diploma in Geoinformatics

APPLICATION FORM FOR ADMISSION
Session: 2017-2018
Last date for receipt of filled in application form: 21.06.2017

1. Name of the Candidate

2. Name of Father/Mother/Guardian:

3. Date of Birth

4. Gender ☐ Male ☐ Female

5. Caste: General/SC/ST/OBC

6. Educational Qualification

Examination	Council/ University	Year of passing	Subjects	Percentage/ Grade *

(i)   Attach extra sheet, if necessary.
(ii)   Enclose attested copies of mark sheets of examinations passed.

7. Give details about Mathematics background: (Mention studied up to what level)

8. Previous courses on RS/GIS attended at any other organization:

9.   Why are you interested in this course? (Within 50 words)

10.   Details   of   Application   fees   paid: D/D   No._____   Bank   _____   Dated: _____

11. Address for communication

_____

_____

_____

<table>
<tr><td>City: _____</td><td>Pin: _____</td><td>State: _____</td></tr>
</table>

Phone: _____   Email: _____

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---

<u>Admit Card</u>
PG DIPLOMA in GEOINFORMATICS (2017-18)
Department of Higher Education,
Science and Technology and Biotechnology
West Bengal State Council of Science & Technology
<u>**Admission Test – 11th July, 2017**</u>
(Applicable, only if the candidate is selected for the Admission Test)

	Form No.

Name of the Candidate : _____

Father's/ Guardian's Name:_____

Address: _____

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

Date of Test : Tuesday, 11th July 2017

Time of Test: 12.00 noon – 1.30 pm.

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

Venue: Conference Room, Geoinformatics & Remote Sensing Cell, Department of Higher Education, Science and Technology and Biotechnology, Bikash Bhavan (4th Floor), Salt lake, Kolkata - 700091

……………………………………
(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. Candidates are requested to bring the Admit Card along with any original photo I/D card for entering the Examination Halls.

_____

<u>Admit Card</u>
PG DIPLOMA in GEOINFORMATICS (2017-18)
Department of Higher Education,
Science and Technology and Biotechnology
West Bengal State Council of Science & Technology
<u>**Admission Test – 11th July, 2017**</u>

	Form No.

Name of the Candidate : _____

Father's/ Guardian's Name:_____

Address: _____

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

Date of Test :   11th July (Tuesday).

Time of Test: 12 – 1.30 pm.

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

Venue : Conference Room, Geoinformatics & Remote Sensing Cell, Department of Higher Education, Science and Technology and Biotechnology, Bikash Bhavan (4th Floor), Salt lake, Kolkata - 700091

……………………………………
(Signature of the Candidate)

_____

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 Higher Education, 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.