No. 242(29)/WBSCST/F/0220/08ʳ(Pt.- I)   Dated: 26.06.2019

From:
Dr. A. R. Ghosh
Senior Scientist &
Course Coordinator

To
The Principal
Chandernagore Government College
Chandernagore - 712136
Hooghly

Sub: PG Diploma Course in Geoinformatics (2019-20)

Sir,

I would like to bring into your kind attention that the Department of Science & Technology and Biotechnology, Government of West Bengal conducts a one year full time PG Diploma course in Geoinformatics from August 2008. The course is implemented through the West Bengal State Council of Science & Technology and the course is affiliated to the Maulana Abul Kalam Azad University of Technology.

Like every year the course will commence from August, 2019. The details regarding the course and application form are available in the website www.vigyanchetana.in. The Information Brochure along with Application Form may be collected from above address on payment of Rs.300/- by cash or by Demand Draft in favour of the Member Secretary, West Bengal State Council of Science & Technology, payable at Kolkata upto 8th July. Last date of submission of filled in application form is 8th July 2019 by 04:00 PM. Admission will be made on the basis of Admission Test, Academic Record as well as Interview. The course will commence from 9th August 2019.

An information brochure and a poster are enclosed with this letter. May I request you to kindly bring this information to the notice of the concerned students and display the poster and information brochure on your Departmental Notice Board.

With regards,
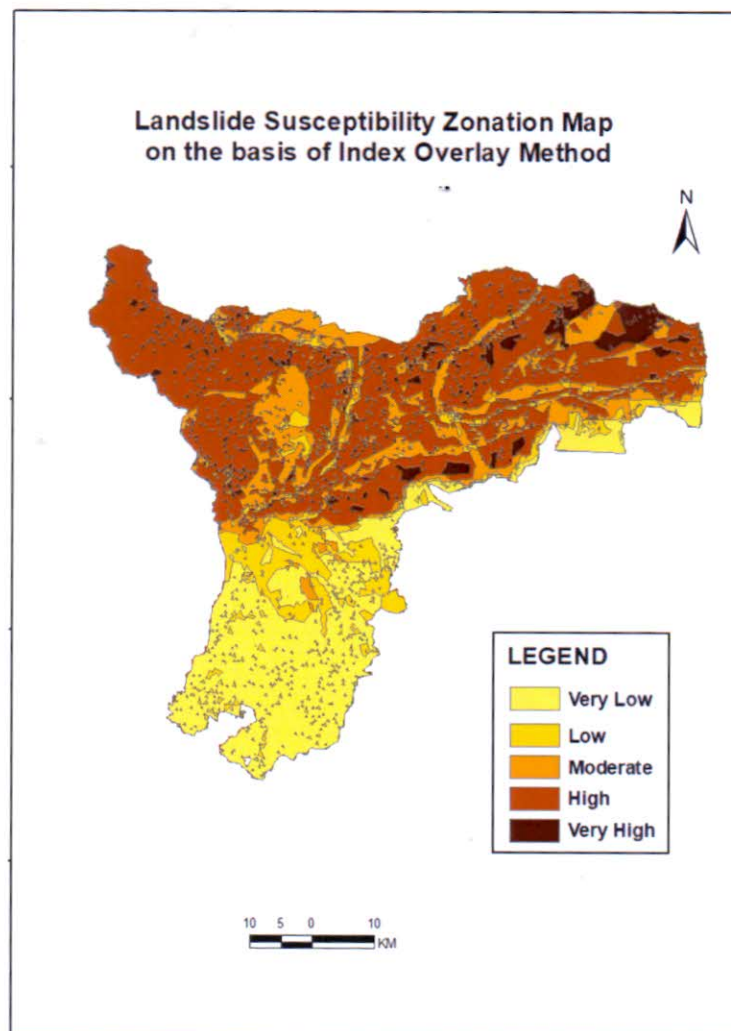
Yours faithfully,

(A. R. Ghosh)

Post Graduate Diploma in Geoinformatics

Conducted 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

**Landslide Susceptibility Zonation Map
on the basis of Index Overlay Method**

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LEGEND

	Very Low
	Low
	Moderate
	High
	Very High

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Prepared by the students of PG Diploma in Geoinformatics Course

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

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, 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 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 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
12. Digital Image Processing

16. Database Analysis Lab
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/-

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 and in the Government of West Bengal website www.wbgov.in & www.vigyanchetana.in.

2. Information Brochure along with application form may be collected from Geoinformatics and Remote Sensing Cell, Department of Science and Technology and 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 websites is used a DD of Rs. 300/- in favour of the Member Secretary, West Bengal State Council of Science & Technology payable at Kolkata is to be enclosed during submission of the filled in Application Form.

3. Candidates appearing in the qualifying examination in 2019 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. At any stage, if a Candidate is found to be not eligible, his/ her Candidature may be cancelled.

Sessions & Classes for Session 2019-20

1. The academic session will start from 9th August, 2019 and is likely to be over by July, 2020.

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:	Upto 8th July, 2019
Last Date of receipt of filled-in Application Form:	8th July, 2019 by 4:00 PM
Admission Test and Interview:	11th July, 2019 from 11.30 am
Tentative date of publication of Result:	26th July, 2019
Admission from Merit List:	2nd August, 2019
Admission from Waiting List *:	7th August, 2019
Commencement of Classes:	9th August, 2019

*All candidates in the waiting list willing to take admission are requested to report the Course Coordinator on 7th August 2019 within 2.00 P.M. at the Conference Room, Bikash Bhavan (4th Floor) 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 8th July, 2019. 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, contact Dr. A.R.Ghosh, Course Coordinator & Dr. Kakali Das, Co-coordinator; Phone (033)2569 3705, 2359 6616, 2569 3720, 2569 3711

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.

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

Applications are invited for admission to

Post Graduate Diploma in Geoinformatics (2019-2020)

❖ The course covers use of state-of-the-art technologies in application fields of Remote Sensing, GIS & GPS and their applications as well as use of programming languages, Database Management Systems, Web Technology in Geoinformatics, etc.

❖ Eligibility Criteria: Master's Degree in relevant disciplines (Please refer Information Brochure).

❖ This one year course is affiliated to the Maulana Abul Kalam Azad University of Technology.

❖ Information Brochure along with Application Form may be collected from the above address upto 8ᵗʰ July 2019 on payment of Rs. 300/- only by cash or may be downloaded from www.vigyanchetana.in website. Last date of receipt of filled in Application Form is 8ᵗʰ July 2019. Admission will be made on the basis of Admission Test, Academic Record as well as Interview. The course will commence from 9ᵗʰ August 2019.

❖ For exact eligibility criteria and further details visit website www.vigyanchetana.in

❖ Phone (033) 25693705, 23566616, 2569 3720, 2569 3711