

Registration (extended) date : 22.03.2019

Revised fees:

Students/ research Scholars

Rs. 3800/-

Faculty/Scientist/Others

Rs. 5000/-

5-Day (One week) Workshop on

“Geoinformatics in

Agriculture and Environment”

March 25-29, 2019



Organized by

Department of Agricultural Engineering

Institute of Agriculture (Palli Siksha Bhavana)

Visva-Bharati, Sriniketan, West Bengal, 731236

About Visva-Bharati

Founded by the first non-European Nobel Laureate Rabindranath Thākūr (popularly known as Tagore) in 1921, Visva-Bharati was declared to be a central university and an institution of national importance by an Act of Parliament in 1951. The President of India is the Paridarsaka (Visitor) of the University, the Governor of West Bengal is the Pradhana (Rector), and the Prime Minister of India acts as the Acharya (Chancellor). The President of India appoints the Upacharya (Vice-chancellor) of the University.

A Central University

In May 1951, Visva-Bharati was declared to be a Central University and "An Institution of National Importance" by an Act of Parliament. It was granted the status of a unitary, teaching and residential university. The status and function of all the major institutions have been redefined in successive Amendments.

About the Workshop

5-Day (One week) workshop on “**Geoinformatics in Agriculture and Environment**” has been contemplated to improve the skill of the participants and delegates on Geoinformatics techniques and its application in the areas of agriculture, environment, forestry, urban planning, rural development, water supply and drainage system etc.

There is huge demand of new technologies in agriculture sector to reduce risk and enhance profit margin to the farmers. It is high time for professional in agriculture to have basic and advanced knowledge of GIS, Remote sensing, precision agriculture technologies to attract educated mass towards agriculture. Understanding weather information, analyzing soil health card, protecting crops against emergent threats will be facilitated with knowledge of Geoinformatics. The environmental issues also need to be analyzed in a faster rate with greater accuracy. The use of opensource software such as QGIS, open access material & data sharing technique, IoT in agriculture etc. will be tremendously beneficial to the participants of the programme. This will also support students in their research work.

Scope of the course

A. Basics of Geoinformatics

Understand Map concepts; how GIS works; Technical terms and common task in GIS; Thematic maps in planning and decision making; Vector and raster data type; Scale and generalization; coordinate system; projection and datum; Map elements and map composition; Type of analysis in GIS functions and their input, outputs.

B. Geoinformatics application Agriculture and Environment

precision farming and application in Agriculture; Understand Digital Image Processing Techniques in Agriculture Resource Management; Understand Precision farming using GPS,

GIS and RS for Crop management; GIS and RS applications in Water management. Understand specific environmental issues; Cases studies on environmental issues using GIS/RS etc.

C. Image processing with QGIS

Scope of QGIS; Different image file formats, Image input, Layout, True/ false color image, NDVI calculation, change detection, classification, mosaic, Geo-processing operation, basic digitization, Geometric transformations /Georeferencing technique, Watershed model, Multispectral transforms: scatter plot; Limitations and future of digital image processing Technique.

D. Image processing in Arc GIS/ ERDAS Imagine

Scope of Arc GIS/ ERDAS; Different image file formats, Image input, Layout, True/ false color image, NDVI calculation, Geo-processing operation, change detection.

Participants

Nearly 20-25 professionals, research scholars and students will participate in the training program. They may belong to the following groups.

- Students of B. Sc / B. Tech / M. Sc / M. Tech/ Ph.D.in Agriculture or Environment
- Agriculture / soil/ environmental consultants
- Young professionals of relevant fields

Expert List

Prof. Manoj Kr. Nanda

Agricultural Meteorology & Physics
Faculty of Agriculture, BCKV,
Mohanpur, West Bengal

Dr. Sayan Choudhary

Assistant Professor,
Directorate of Open and Distance learning
(DODL), Kalyani University, Kalyani, West
Bengal

Dr. Parthasarathi Mukhopadhyay,
Head, Department of Library and Information
Science, Kalyani University, Kalyani

Ms. Smriti Hansda,

Assistant Professor, College of Agriculture,
OUAT, Bhawanipatna, Odisha

Prof. Vibhash Chandra Jha

Professor, Department of Geography,
Vidya Bhavana, Visva-Bharati, Santiniketan

Mr. Sk. Mithun

Assistant Professor, Department of Geography,
Haldia Government College, Haldia, West
Bengal

Dr. B.B. Sahoo,

Deputy General Manager, Bankers Institute of
Rural Development (BIRD), Bolpur, W.B.

Registration fees

Registration fee for each participant is Rs. 5000/- (Rs. 3800/- for students), which includes refreshment (breakfast and lunch) and the workshop materials etc. Participants may bring their own laptops in the workshop and free trial/open source software will be loaded by us on their laptop. **Last date: 22st March, 2019.**

Registration Details:

Registration fee:

Student/Research Scholar :Rs. 3800/-

Faculty members/Scientist/Others :Rs. 5000/-

Registration form: enclosed

Payment mode: cash/online

Bank Name: HDFC Bank Ltd, Shivam Complex, Bolpur

A/C Name: Visva Bharati University Project

A/C No.: 50100195564478

IFSC code: HDFC0002785

Contact Information

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Co-coordinator

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Registration form

**5-Day (One Week) Workshop on
“GEOINFORMATICS IN AGRICULTURE AND ENVIRONMENT”
Department of Agricultural Engineering, PSB,
Visva-Bharati, Sriniketan, West Bengal,
March 25-29, 2019**

Name :

Gender : M / F

Designation :

Major Subject :

Organization :

Mobile No :

Email :

Will you bring Laptop? : Yes/No

Food : Veg / Non. Veg

Accommodation Required : Yes / No

(On extra payment and request)

Date & Time of Arrival :

Date & Time of Departure :

Signature