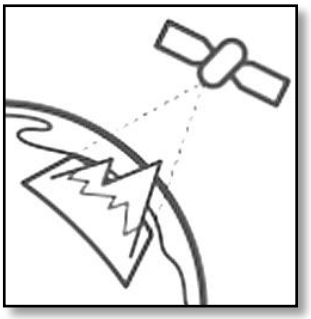
Department of Agricultural Meteorology
College of Agriculture
CCS Haryana Agricultural University,
Hisar-125 004 (India)



Training Course on 'Geo-informatics for Agriculture'

(September 11-20, 2017)

Timely and accurate information on various natural resources as well as agriculture is important for the planned development of the State. Remote sensing (RS) and geographic information system (GIS) are fast emerging technologies that witnessed phenomenal growth over the recent decades. These technological tools (i.e. Remote Sensing, GIS and GPS; together termed as Geo-informatics) enhanced our capability for exploring, mapping and monitoring resources at local, regional and global scale.

Remote sensing is the acquisition of information about an object or phenomenon without making physical contact with the object and thus in contrast to on-site observation. In modern usage, the term "remote sensing" refers to the use of satellite or aircraft based sensor technologies to detect and classify objects on Earth, including on the surface and in the atmosphere and oceans, based on propagated signals (e.g. electromagnetic radiation). It is used in numerous fields like geography, agriculture, hydrology, geology, meteorology and all spatial sciences. On the other hand, a Geographic Information System (GIS) is a system designed to capture, store, manipulate, analyze, manage, and present all types of spatial or geographical data. GIS is a broad term that can refer to a number of different technologies, processes, and methods. It is attached to many operations and has various applications related to engineering, planning, management, transport/logistics, insurance, telecommunications, and business etc. GIS has still yet to be taken up in agricultural science as there is massive potential for managing our crop production and increasing yields in line with other technology. Agricultural scientists are always looking at ways to best produce our crops, manage soils while respecting the environment and protect them from disease and pests. In addition to all these, there is an ongoing challenge to cope with the changing climate. Geo-informatics can play a vital part in tackling these challenges.

The broad applications of Geo-informatics in agriculture are area acreage, irrigation scheduling, moisture estimation, soil mapping, drought and flood mapping, detection of stress in crops due to biotic and abiotic factors, water table mapping, evapotranspiration estimation, disease and many more. This technique can also be applied in mapping of environment resources like forest biomass estimation and its mapping, climatic resource estimation, mapping of forest fire and pollution meteorology. Foreseeing the advantages, essentiality and its applications in agricultural research, the department has established an *Agro-Geoinformatics Lab* for applying this state of the art technique in agricultural research at this university and also to train the faculty in its application.

Therefore, a short training Course on ***'Geo-informatics for Agriculture'*** has been formulated in such a way that it will empower the scientists/teachers/extension workers/researchers and other stake holders to understand this technology and to gain experiences for its application.

Objectives

This course has been developed with the following specific objectives:

- To sensitize and orient agricultural professionals on state of the art technology of Geo-informatics.
- To provide skills and knowledge for using RS-GIS software in agricultural research.

Programme

The training programme will consist of a balanced blend of lectures by well experienced resource persons, group discussions, and practical exercises on RS-GIS software and assignments. The programme will largely be interactive and the participants will get ample opportunity for acquisition of new knowledge and skills; and sharing of experiences too.

Participants

The course has been designed for Scientists/Teachers/Extn. Workers/ Research Associates/ SRFs/ JRFs other technical / research persons working in the university. Total number of seats has been kept upto 15.

Registration Fee

No registration fee.

Evaluation

The participants, through a well-designed questionnaire, will evaluate the programme for its quality of contents, suitability and usefulness to the target clientele. Likewise, the participants too will undergo formal assessment.

Travel and other logistic arrangements

No expenses for travel or otherwise will be borne by the Department. The sponsoring Department will meet the expenditure on TA/DA and registration fee of the participants as per their rules. Accommodation in the University Faculty House will be arranged for outstation participants on receipt of request in advance. Simple vegetarian food will be served at the University Faculty House on nominal charges to be borne by the participants.

Nominations in the prescribed format may be sent through respective COs to:

Professor & Head/Course Director
Dept of Agril Meteorology, CoA CCS HAU, Hisar- 125004 (Haryana).
Tel. 01662-255208; Fax: 01662-284335; Mobile-09416092462;
Email: headagmet@gmail.com

Course Coordinators:

Dr Anurag, Dr Anil Kumar
Dept of Agril Meteorology CoA,
CCS HAU, Hisar-125 004 (Haryana), Mobile -09466401101, 09467988167

The last date for receipt of nominations is 08.09.17 (11 am). *The nominations may be sent by Post/Fax/Email (headagmet@gmail.com). The selected participants will be informed immediately after the last date of receipt of nominations.*

Dept of Agricultural Meteorology, (CoA)
CCS Haryana Agricultural University, Hisar

Training Course on Geo-informatics for Agriculture

(September 11-20, 2017)

Format for Nomination (Photocopies may also be used)

1. Name :
2. Designation :
3. a) Department/Office :
   b) University/Institute :
4. Date of Joining :
5. Date of Birth :
6. Address for Communication

……
……

7.Telephone: Office …… Residence……. Fax ……..
Mobile E-mail……..
Mobile #

8. Qualifications:

Degree	Year	University	Subject

9. Experience:

Position Held	Date From	Date To	Institution	Nature of duties

10. Accommodation: Required/Not required

Signature of the Participant

Certificate by the Sponsoring Authority

Ms/Mr/Dr…… is hereby nominated for participation in the Training Course on 'Geo-informatics for Agriculture' during September 11-20, 2017 being organized by Department of Agricultural Meteorology, CoA, CCS HAU, Hisar. He/She will be relieved by the Department/Office and treated on official duty during the period of the course. The registration fee and other charges for attending this course will be borne by the sponsoring authority/candidate.

Signature of the Competent Authority
(*Office seal*)