

How to Apply

State Department of Agriculture/UTs may nominate 2-3 officers from their Department for the training. Interested officials of the line department can also apply for filling the prescribed application form as given herewith and forwarded by the competent authority. An advance form may be sent in anticipating delay, if any, in forwarding the application through proper channel.

Last date for receipt of application is 30.01.2016

Maximum 20 participants will be selected for this program based on the availability of rooms in the Trainees Hostel and the laboratory space for conducting practical. For speedy disbursement of selection letters, participants are requested to provide Email & Fax No. positively.

Confirmation of Participants

Selected candidates will be informed through E-mail/Telephone soon after the closing date. All the selected candidates are required to reply on acceptance positively.

Important Dates

Last date for receipt of application: 30-01-2016
Notification of selection: 06-02-2016
Commencement of the course: 24-02-2016

All correspondence may be addressed to:

Dr. (Mrs.) Prameela Krishnan, Head

or

Dr. Debashis Chakraborty, Course Director

Division of Agricultural Physics
ICAR-Indian Agricultural Research Institute
New Delhi-110 012
Phone no: 91-11-25841178
Fax no. 91-11-25843014
Mobile: 8826743644
Email: mtc.ap.2016@gmail.com; debashisiari@hotmail.com

Detailed information is also available at:

<http://www.iari.res.in>

Application Proforma for Participation in Model Training Course

on

Participatory Geographical Information System (P-GIS) for Sustainable Natural Resource Management (February 24 - March 2, 2016)

(Typed forms may be used)

1. Full Name (in BLOCK LETTERS):
2. Designation:
3. Present employer and Address:
4. Address to which reply should be sent (in block letters):
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.....
Phone*: Fax: Mobile*:
5. Permanent address:
6. Date of birth:
7. Sex: Male/Female Marital status: Married/Unmarried
8. Nature of work and experience
.....
.....
.....

9. Training attended during last five years:

S. No.	Training	Duration (Days)	Year

10. Experience in Management (No. of years):
11. Academic record:

Exam. Passed	Subjects (Main/ Subsidiary)	Year of passing	Class/Ranks, Distinctions etc	Univ. or Instt.
Bachelor's degree				
Master's degree				
Other certificate				
Dip./degree				
Ph.D.				
Other				

Date:

Place:

Signature of applicant

13. Recommendations of the forwarding Organization:

Date:

Signature of the sponsoring authority
with name, designation and address

*Note: Application should be sent to the Course Director;
Dr. Debashis Chakraborty,
ICAR-Indian Agricultural Research Institute,
New Delhi 110012
on or before 30 January, 2016
(mtc.ap.2016@gmail.com; debashisiari@hotmail.com);
Office phone : 011-25841178, 25848853; Fax : 011-25843014*



Model Training Course

on

Participatory Geographical Information System (P-GIS)

for

Sustainable Natural Resource Management

February 24 - March 2, 2016

Organized by:

**Division of Agricultural Physics
ICAR-Indian Agricultural Research Institute
New Delhi - 110012**

Sponsored by:



सत्यमेव जयते

**Directorate of Extension
Department of Agriculture, Cooperation &
Farmers Welfare
Ministry of Agriculture
Krishi Vistar Bhawan, Pusa
New Delhi-110012**

About the Model Training Course

Effective natural resources management requires proper documentation of existing natural resources, evaluation and monitoring of the current situation and planning of future actions. Geographical Information System (GIS) has established as a powerful planning and decision making tool. GIS provides spatial planning and decision making system to get visual presentation of different facts in the form of multi temporal and comparison maps. Participatory geographical information system (P-GIS) is fast emerging as a tool for management of natural resources that makes the common people to understand the potentiality of the modern spatial information science and technologies including GIS, low-cost global positioning systems (GPS), remote sensing (RS) image analysis that will lead to a better and sustainable use of the resources. In place of time consuming and complex procedure of scale mapping, P-GIS methods employs the participatory rural appraisal techniques in creating spatial natural resource maps.

People of rural India are mostly engaged in agricultural activities, which give livelihood to 70% of Indian population. Farmers are in better understanding of the soils and land, though they may not be able to scientifically explain the phenomena and processes. They need to be educated and explained the behaviour of the land, different soil quality aspects, inputs (water, fertilizer, plant protection measures) for a better and sustainable harvest. As GIS has plenty of agricultural applications such as spatial mapping of soil and groundwater resources, managing crop yields, estimating soil loss, optimizing inputs application for single field or farm or entire region, the approach of P-GIS should improve the GIS application potential. With the availability of many open-source GIS programmes, and low-cost technology gadgets & spatial database including satellite imageries and database portals, analysis of data becomes easier and people-centric, rather than in the hands of few experts.

To this effect, the officers of the State Developmental Organizations can be properly and effectively trained on the powerful tools of GIS to connect to the community people in a more efficient and scientific way. This 8-days training programme is planned to educate the Officers in understanding the potential of GIS and use them to monitor the natural resources base, and apply then in local development programmes.

Location and Climate

The ICAR-Indian Agricultural Research Institute, the sheet of green revolution, is country's premier institute for research and higher education in agricultural sciences. The Division of Agricultural Physics, a constituent of School of Natural Resource Management of IARI conducts basic and strategic research on physical processes and properties affecting plant growth, serves as a centre for academic excellence, and provides national leadership through human resource development.

The Division has four sub-disciplines: Soil Physics, Plant-Biophysics, Agricultural Meteorology and Remote Sensing-GIS, which form the major pillars of the edifice of Agricultural Physics as a Discipline.

The climate during February is moderately cold. It is warm (27 °C) and comfortable during day. The night will be cold and light warm clothes may be required. The sky will be mostly clear and there is less chance of rains.

Course Content

The following topics are intended to be covered:

- Spatial data analysis
- Georeferencing
- Data sources
- Data capture and integration
- Mapping
- Open source GIS software
- Participatory tools
- Participatory situation analysis
- Participatory sensing and data collection
- Cognitive maps and use of indigenous knowledge
- New spatial technologies and their applications
- Identify research topic and develop multi disciplinary project

Approach and Methodology

The program will include lectures from specialists, field and laboratory oriented problem-solving sessions and case studies. Balanced emphasis will be given on the theory and hands on practical sessions. The participants are encouraged to bring information on NRM technologies developed by their organization for discussion.

Period

The period of the course is 8 days (February 24 to March 2, 2016). Participants are expected to arrive on Friday 23, 2016 and leave only after 5 PM on March 2, 2016.

Eligibility

The course is meant for State, Regional and District level Officers and Extension Personnel of the State Department of Agriculture. The total number of participants shall be 20 (Twenty).

Boarding and Lodging

The participants will be provided free boarding and lodging in the Kaveri Trainees Hostel (within the campus). Participants will be paid for travel to and fro (as per the entitlement maximum up to AC-II tier of train or State transport bus by the shortest route) as per the guidelines. No DA will be provided by the organizers. Participants are requested not to bring their spouse or any family members as there is no scope for their accommodation at IARI. Participants are requested to make his/her own arrangement of transport to reach the Kaveri Trainees Hostel at IARI.