

APPLICATION FORM

1. Full name (in block letters) :
2. Designation :
3. Present employer and address :
4. Address for communication
5. Contact telephone / mobile with whatsapp facility / fax / email ID :
6. Permanent address :
7. Date of birth :
8. Sex (Male / Female) :
9. Marital status (married/unmarried):
10. Teaching/Research/Professional experience (post held during last 5 years) :
11. Mention if you have participated in any seminar /Summer / winter school / short course etc. during the previous year under ICAR/other organizations:
12. DD No. -----Dated----- of Rs. 50/- (Non-refundable) for registration of application (in favour of Director, ICAR-NSBB&LUP, Nagpur). Payment may also be made through online (NEFT/RTGS) in the account of ICAR Unit, NSBB&LUP, Nagpur. A/C No. 10199461222, IFSC Code: SBIN0007504.

13. Educational qualification :

Examination passed	Subjects	Year	Division	University/ Institution	Other information
Bachelor's degree					
Master's degree					
Others					

14. Teaching / Research / Professional experience (mention post held and number of publications)
15. Any previous exposure towards RS & GIS and soil survey course / training :
Signature of applicant

16. Recommendations of the sponsoring authority
Signature of sponsoring authority with date, designation & address

(Office seal)

How to Apply:

There is no course fee. Interested candidate may apply online via website <https://cbp.icar.gov.in>. Necessary rules and guidelines are available in the website. For any query write mail to the course director or cbp@icar.gov.in. Please ensure to upload the scanned copy of the application form approved by the Director or Head of Organization.

Eligibility:

Participants should be from ICAR institutes/ State AUs/CAU/Agricultural faculty of AMU, BHU, Vishwa Bharati and Nagaland University in the cadre of Assistant Professor or equivalent or above. Selection will be based strength of the applications and preference will be given to those who have not undertaken similar training earlier. Decision of Course Director will be final.

Number of seats: 25

Important dates

Last date of application: December 11, 2021
Intimation of selection: December 15, 2021
Confirmation by participants: December 18, 2022
Publishing final list of participants: December 22, 2021
Course commencement: March 02, 2022
Course completion: March 22, 2022

Correspondence

All the correspondence should be addressed to:

Dr. S.K. Ray
Principal Scientist & Head

ICAR-National Bureau of Soil Survey and Land Use Planning, DK-Block, Sector-II, Salt Lake, Kolkata-700 091, West Bengal, India
E-mail: hd_rck.nbsslup@icar.gov.in
Telephone No.: +91-33-23586926 / 23590727 (O)
Mobile No.: 8811080718 / 7002621349
Fax: +91-33-23215491

Dr. S.K. Reza
Senior Scientist & Course Director

ICAR-National Bureau of Soil Survey and Land Use Planning, DK-Block, Sector-II, Salt Lake, Kolkata-700 091, West Bengal, India
E-mail: S.Reza@icar.gov.in; reza_ssac@yahoo.co.in
Mobile No.: 8583000212 / 7003284898

Training Programme

on

Application of Remote Sensing and GIS in Land Resource Management for Sustainable Agriculture (2nd to 22nd March, 2022)



Sponsored by:

Indian Council of Agricultural Research (ICAR),
New Delhi



Course Director

Dr. S.K. Reza

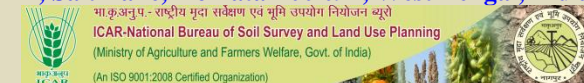
Coordinators

Dr. S. Bandyopadhyay

Dr. S. Mukhopadhyay

Organized by

ICAR-National Bureau of Soil Survey and Land Use Planning, Regional Centre, DK-Block, Sector-II, Salt Lake, Kolkata-700 091, West Bengal, India



Background:

Land resource inventory and resource management play a vital role in sustainable crop production and food security. Use of geospatial techniques will add a new dimension in the land resource inventory by minimizing time and cost. The wealth of information that is available in remotely sensed (RS) data help to study landscape and land use/land cover analysis which help in land resource characterization, mapping, monitoring, modelling and management of resources. Geographical Information System (GIS) is a set of tool for collecting, storing, retrieving, analysis and displaying natural resource information in spatial domain. The information generated through these technologies are evaluated in conjunction with soil survey field work for soil resources and interpretative parameters like soil properties, capability, irrigability and productive potential of areas to formulate an optimal action plan for developmental planning. This training will involve hands on exercises in identifying landforms through visual and digital image interpretation and thematic mapping. The programme will also cover the concepts of pedogenic processes, soil properties, soil classification, land evaluation and farming system approach towards land use planning. The trainees will get exposure on field work, laboratory analysis and geospatial techniques which will immensely benefit them in contributing towards any soil based developmental programme, apart from ecological and climatic change studies.

Keeping this in view, a training programme entitled “**Application of Remote Sensing and GIS in Land Resource Management for Sustainable Agriculture**” has been organized with the following objectives.

Objectives:

1. To enable the participants to interpret and identify the land resources using latest technologies of RS, GIS and GPS.
2. To sensitize and orient the participants in the field of RS and GIS application for land resource mapping for LUP programmes.
3. To create expert manpower to cater the needs of development agencies for better utilization of land resources.

Course Content:

- Soil resource inventory for land use planning-An overview
- Application of remote sensing in land resource inventory-An overview
- Weathering of rocks and minerals
- Factors and process of soil formation
- Soil morphology
- Satellite data and their use in land resource inventory
- Concept and principles in digital image processing techniques
- GIS and RS application in digital terrain analysis
- Practical on digital terrain modeling
- Practical on visual image interpretation
- Soil survey techniques
- Soil survey field work (Soil-landform relationship)
- Soil analytical methods (Theory and Practical)
- Soil data interpretation
- Soil taxonomy
- Concept of soil series and soil correlation
- Land evaluation techniques
- LUP-concepts and methods *vis-a-vis* farming system approach and landform concept for planning
- Soil and water conservation
- Soil and thematic mapping (Practical)
- Report writing on land resource management.

About ICAR-NBSS&LUP:

ICAR-National Bureau of Soil Survey and Land Use Planning (NBSS&LUP) under the administrative control of Indian Council of Agricultural Research (ICAR) and Department of Agricultural Research and Education (DARE), Govt. of India was established in 1976 with its headquarters at Nagpur. Presently, Bureau has 5 regional Centers at Bangalore, Delhi, Jorhat, Kolkata and Udaipur. The Regional Centre, Kolkata is first of its kind in Eastern Region in the field of acquisition of soil data, mapping their extent and their utilization in land evaluation and land use planning at state, district, block, watershed, village and farm level.

How to Reach ICAR-NBSS&LUP:

Kolkata is well connected by Air, Rail and Road. The Guest house is located at GB-Block, Sector-III, Salt Lake near water tank No. 13 in Salt Lake, Kolkata and is about 8 km from Netaji Subhash Chandra Bose International Airport, 11 km from Howrah Railway Station and 9 km from Sealdah Railway Station. Buses and pre-paid taxi can be availed from railway station and Airport to reach to the guest house.

Travelling Allowance, Boarding and Lodging:

The cost of travelling, boarding and lodging of the selected participants will be met out of the grant from ICAR, New Delhi. All the participants will be reimbursed to- and fro- travel fare for the journey to Kolkata by the shortest route. The payment will be made as per the entitled class of travel, but restricted to maximum of AC-II tier train fare/ bus fare (on producing proof of travel).

Boarding and lodging will be provided freely to the outside participants at institute's guest house on sharing basis and local participants will be provided lunch, inter session tea and course material only free of cost.

Participants are requested not to bring family members with them, as the Institute has limited guest house facilities. No DA will be paid to the participants.

COVID-19 Notes:

The following points must be followed as per the COVID-19 situations and guidelines.

- Only fully vaccinated participants will be allowed to participate (participants must produce certificate along with the application).
- Few changes in training formats may be incorporated based on the COVID-19 scenario at that time.
- The number of participant may be reduced based on single occupancy in guest house.
- Maintaining social distancing during lecture, practical, field work and while staying in guest house.
- Other COVID-19 protocols (as per MHA Guideline, GOI and State Government) must be followed during the training period.