

INFORMATION BROCHURE
ICAR-SPONSORED TRAINING
PROGRAMME

ON

**Integrating soil, water and climate in
agriculture for better resource use
efficiency and profitability**

08 December - 19 December 2025

Course Director
Dr. Ramanjit Kaur
Principal Scientist

Course Coordinators
Dr. R S Bana, Sr. Scientist
Dr. Vijay Pooniya, Sr. Scientist
Dr. Mona Nagargade, Scientist



DIVISION OF AGRONOMY
ICAR-INDIAN AGRICULTURAL
RESEARCH INSTITUTE
NEW DELHI 110 012



**Application form for participation in
training program**

*(To be sent to the Course
Director/Coordinator of Summer School
concerned and not to the Indian Council of
Agricultural Research)*

Institute _____ **at**
_____.

1. Full name (in block letters):
2. Designation:
3. Present employer and address:
4. Address for correspondence (Give E-mail, Tel. / Mobile No.):
5. Permanent address:
6. Date of birth:
7. Sex: Male/Female
8. Marital status: Married/unmarried
9. (a) Teaching/research/professional experience
(Mention posts held in last 5 years):
(b) Present area of research and number of publications:
10. Registration fee of Rs. 50/- (DD/Postal Order No..... dated.....
(in favour of Director, ICAR-IARI, New Delhi) (non-refundable)

11. Relevance of training to applicant's present academic and research activities:
12. Signature of applicant (indicate name of place and date):
13. Recommendation of the forwarding Institute (signature with date, designation / address):

CERTIFICATE

It is certified that the above information was furnished as per the office record and was found correct.

(Signature and designation of the sponsoring authority)

How to apply?

Application for participation in the Training Program may be made in the prescribed format as given herewith and forwarded by the competent authority of the SAU/ICAR Institute where the candidate is employed. The final selection will be made only if the application duly recommended by the competent authority is received, which must not be later than one week after the closing date. The closing date for receipt of applications is **25.11.2025**. The selected candidates will be intimated by **30.11.2025**.

About the Training Program

Integrating soil, water, and climate management involves adopting location-specific and adaptive strategies such as precision irrigation, conservation tillage, efficient nutrient management, and climate-smart technologies. These practices improve soil moisture retention, enhance nutrient-use efficiency, and mitigate the impacts of

climatic fluctuations. Furthermore, incorporating weather-based decision support systems, real-time monitoring, and forecasting tools enables farmers to make informed management decisions.

By harmonizing soil health restoration, efficient water use, and climate resilience, agriculture can transition towards a more sustainable and profitable model. The integration of these key resources ensures optimum input use, reduced production costs, and enhanced productivity-forming the cornerstone of resilient and resource-efficient agricultural systems.

Location and Climate

The ICAR-Indian Agricultural Research Institute, popularly known as 'Pusa Institute', is the country's premier institution for research and higher education in the field of agricultural sciences. The primary mission of the Institute is to explore new frontiers of science and knowledge and develop human resources to provide leadership to the country in technology development and policy guidance. The Institute conducts basic and strategic research, serves as a Centre for academic excellence, and provides national leadership in agricultural research, education and extension through development of new concepts, hypotheses and technologies.

The Division of Agronomy is one of the oldest Divisions of ICAR-IARI, and is engaged in teaching, research, extension and training activities since pre-independence times. It has contributed significantly in developing improved production technologies, which ushered green revolution in Indian agriculture.

The ICAR-IARI is located about 8 km west of New Delhi railway station and 10 km from the Maharana Pratap Inter-State Bus Terminus (ISBT). The weather during proposed training duration is expected to be cold with temperatures between 5°C and 15°C in Delhi.

Course Contents

The training program “**Integrating Soil, Water and Climate in Agriculture for Better Resource Use Efficiency and Profitability**” will focus on enhancing participants' technical competence in integrated resource management through both theoretical and practical exposure. The course will cover the importance of soil-water-climate integration for sustainable agriculture, soil health management, efficient water use through irrigation scheduling and precision irrigation, and understanding climate variability and its impact on crop productivity. Key modules include site-specific nutrient and water management, development of integrated cropping systems, and economic and energy analysis for improved profitability. Practical components will involve soil and water monitoring, weather-based planning, and field demonstrations, complemented by expert lectures, case studies, and interactive discussions for effective knowledge exchange and skill enhancement.

Eligibility

This Training is meant for technical personnels working in ICAR Institutes/ SAUs/ Agricultural colleges in the field of Agronomy/ Soil Science/ Agricultural Physics /Plant Physiology/ Entomology/ Plant Pathology/ Organic agriculture or any other

related disciplines like Agroforestry, etc. A maximum of 25 participants will be selected for the course by the screening committee as per the ICAR guidelines. The decision of the selection committee will be final and no correspondence in this regard will be entertained for non-selected candidates.

Travel, Boarding and Lodging

The boarding and lodging expenses of the selected participants will be met from the funds provided by the ICAR as per norms and operational guidelines for organization of HRM training courses. TA will be admissible for the shortest route from the place of duty to the training location and back, and the expenses will be borne by the sponsoring institute. The participants will be provided shared accommodation in the Sindhu /other guest house of the Institute.

Correspondence should be directed to:

Dr. Ramanjit Kaur, Course Director

Division of Agronomy, ICAR-IARI, New Delhi 110012

Telephone No.: 011-25841488(O), Mob: 08595813739;

Email: ramaan180103@yahoo.com

For more information please contact

Dr. RS Bana, Course Coordinator

Telephone No.: 011-25841488(O), Mob: 09873783461, Email: rsbana@gmail.com

Dr. Vijay Pooniya, Course Coordinator

Telephone No.: 011-25841488(O), Mob: 07838205149

Email: vpooniya@gmail.com

Division of Agronomy, ICAR-IARI, New Delhi 110012