

INFORMATION BROCHURE
ICAR Sponsored Winter School

on

**Farm Mechanization for Facilitating Conservation
Agriculture & Climate Smart Technology**

January 4-24, 2022

Sponsored by

Indian Council of Agricultural Research, New Delhi



Course Director

Dr. Uday R Badegaonkar, Pr. Scientist

Course Co-Directors

Er. Manish Kumar, Scientist (SS)

Dr. Mukesh Kumar, Scientist

Organized by



ICAR-Central Institute of Agricultural Engineering

Nabibagh, Berasia Road, Bhopal-462038 (M.P.)

www.ciae.icar.gov.in

Tel: 0755-252 1090/1241/1159



Background

Climate Change poses the greatest challenge to sustainable agriculture and food security. Conservation Agriculture (CA) and Climate smart agriculture involves Crop production techniques that contributes to food security by addressing current and projected climate change impacts through adaption and mitigation and provides an opportunity for win-win situation despite adverse changes. The agriculture in the coming decades will have to sustainably produce more food from less land through more efficient use of natural resources and with minimal impact on the environment in order to meet growing population demands. The world community therefore needs a strong farmer who can overcome barriers and simultaneously increase his income.

Mechanization plays a critical role in achieving these goals. Most appropriate equipment for specific situation is essential in respect of field requirements. Smallholder farmers require specialized mechanization services that are both environmentally friendly and productivity-enhancing. Besides, the chosen equipment (Design: implement geometry) should match to the power unit. Skilled operation is important to maintain work rate and avoid loss of precious resources.

It is in this context, this training course of 21 days is proposed to be organized to develop human resource capable of addressing mechanization needs for promotion and adoption of engineering technologies in Agriculture.

Objectives

The main objective of organising winter school is to upgrade the knowledge of researchers to enable them to face the future challenges in Agricultural Engineering Research and Extension which will greatly depend on developing appropriate technologies for precision, maximizing input utilization efficiencies, and conserving energy, natural resources and thereby the Climate.

Course content

The content (lectures, hands-on practical and field visits) of the winter school has been designed to cover broadly the following:

- ✓ Conservation Agriculture Overview- Worldwide Scenario
- ✓ CA Research- Need of Further Studies from Mechanization Perspective
- ✓ Controlled Traffic Operation Farming
- ✓ Climate Smart Approaches & Technologies
- ✓ Precision Farming Techniques
- ✓ Decision Support System (DSS) and Expert systems
- ✓ Sensors and instrumentation
- ✓ Agro-residue management: In-Situ and Ex-Situ
- ✓ Covered cultivation
- ✓ Carbon credit and trading
- ✓ Case Studies

Eligibility for participation

The training programme is open to Scientists/Teachers/Subject Matter Specialists/ Professionals of ICAR Institutes/CAU/SAUs/KVKs involved in research, development and extension programmes. The eligibility criteria for the course are:

- Master's degree in Agricultural Engineering / Agriculture and allied discipline Food Process Technology / Food Engineering / Dairy Engineering/ Postharvest Technology/ Food science/ Any other relevant discipline from any of the recognized university.
- Working in a position not below the rank of Scientist / Assistant Professor / Lecturer / Subject Matter Specialists or Equivalent.

How To Apply (On-Line Process)

As per the ICAR instructions, the interested candidates should register and apply online through 'Capacity Building Programme' (CBP) portal as follows:

1. Visit the website <https://cbp.icar.gov.in>
2. Login using your user ID and Password. To create user ID use "Create New Account".

3. After login, click on “Participate in Training” link and fill the Performa.
4. Take a printout and send duly signed copy through proper channel to the Course Director of Summer School by post along with registration fee, at the address and contact details given in the brochure. Please free to contact the Course Director for any assistance. The last date for receiving the nomination is 20th December, 2021. The advance scanned copy of the nomination may be sent by e-mail.

Registration Fee

The participants are required to pay a sum of Rs. 50/- (Rupees Fifty only) as registration fee (Non-refundable) along with the completed application in the form of Demand Draft drawn in favour of ICAR UNIT-CIAE, BHOPAL payable at Bhopal.

Boarding and Lodging

Free lodging and boarding will be provided to the participants as per the approved ICAR norms. The Institute has a furnished guesthouse/ hostel with dining, recreation and medical facilities in the campus. Please note that, strictly no accommodation in the guest house will be provided to the family members or guests of the participants.

Travel

Participants will be paid travel fare to and fro through the shortest route from their respective institution to CIAE, Bhopal and back for journey by AC-II class train fare or bus as the case may be. TA to be paid on production of a certificate or tickets by the participant. No air fare will be provided.

How to Reach

CIAE Bhopal is well connected by air, rail and road. Pre-paid auto rickshaw and taxi can be availed to reach CIAE Bhopal campus.

About CIAE

The Central Institute of Agricultural Engineering (CIAE), was established by ICAR on Feb.15, 1976 at Bhopal (MP). The CIAE is a premier Institute in the country to conduct basic, applied and adaptive research in Agricultural Engineering. Organizing specialized training courses for human resource development is a major commitment of the Institute to upgrade the skills of engineers, scientists, subject matter specialists, farmers, artisans, manufacturers and planners engaged in the promotion of agricultural mechanization in the country.

The Institute campus is located at Nabibagh on Berasia Road, 7 and 8 km, from Bhopal station and Raja Bhoj airport respectively, is situated at 77°20'E longitude and 23°20'N latitude at an elevation of 495 m above mean sea level. During Jan-Feb, the max. temp. normally varies between 25-30°C while min. is about 10-15 °C.

Correspondence address:

Course Director

Uday R. Badegaonkar

Agricultural Mechanization Division
udayrb65@gmail.com (+919575509305)

Course Co-Directors

Manish Kumar

Agricultural Mechanization Division
manishagriner@gmail.com (+918878939484)

Mukesh Kumar

Irrigation & Drainage Engineering Division
mukeshciae@gmail.com (+918839134572)

Important Dates

Last date for receipt of applications : 20.12.2021

Intimation to selected candidates : 23.12.2021

Confirmation by selected candidates: 27.12.2021

NOTE: Once selected, candidates will be intimated through email to which they should promptly reply with firm acceptance and travel plan.

Application Form

ICAR- Winter School on

Farm Mechanization for Facilitating Conservation Agriculture & Climate Smart Technology

(04-24 January, 2022)

Affix your Recent
Passport Size
Photograph
here

1. Full name (in BLOCK letters):
2. Designation:
3. Present employer and address:
4. Address to which reply should be sent (in BLOCK Letters)
5. Mobile No.: E-mail:
6. Permanent address:
7. Date of Birth
8. Sex: Male/Female
9. Teaching/research/ professional experience (mention post held during last 5 years and number of publication with details).
10. Mention if you've participated in any seminar/summer/winter school/short course etc. during the previous years under ICAR/other organizations
11. DD No. Dated of Rs. 50/- (NON REFUNDABLE) for registration of application (DD in favour of ICAR UNIT-CIAE, BHOPAL) payable at Bhopal. Payment may also be made through online (NEFT/RTGS) in the account of **ICAR Unit-CIAE, Bhopal**, A/c No. 10470972113, IFSC Code: SBIN0010144
12. Academic record: (Degree onwards)

Degree	Subject	Year	Division	University
Bachelor				
Master				
Doctorate				
Post-doc.				

Signature of applicant with date and place

13. Recommendation and certificate of sponsoring Institute

Signature with date, designation & address
(office seal)