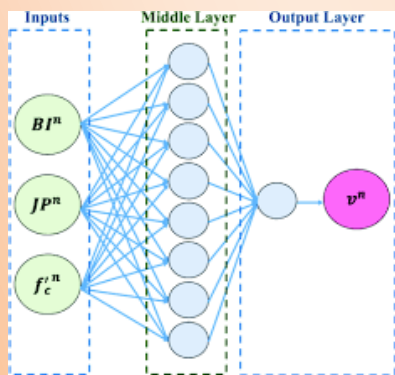## ON-Line Application Process

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

1. Visit the website https://cbp.icar.gov.in/ or click on Capacity Building Programme link under https://icar.gov.in/

2. Login using your user ID and Password. To create user ID use "Create New Account" link.

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 CAFT Training by post along with registration fee as per the address and contact details given overleaf. Please free to contact the Course Director for any assistance. The last date for receiving the nomination is 30th June, 2018. The advance scanned copy of the nomination may be sent by e-mail.

Note: The candidates will be notified about selection latest by 5th July, 2018. 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.

Contact

Dr. Krishna Kumar Singh
Course Director
Ph. No: 0755-2521000, 9582898993 (Mobile)
E-mail: director.ciae@icar.gov.in

Dr. Karan Singh
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Couse Co-Director
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Dr. K. K. Singh
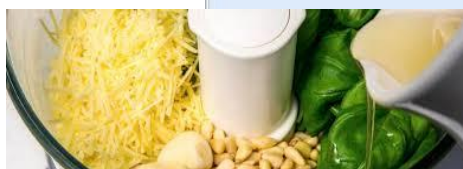**Director**
ICAR-Central Institute of Agricultural Engineering
Nabi Bagh, Berasia Road
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www.ciae.nic.in

Important Dates
Last date for receipt of applications   : 30.06.2018

Intimation to selected candidates   : 05.07.2018

Confirmation by selected candidates : 20.07.2018

Announcement cum information brochure

for

ICAR Sponsored

CAFT Training

on

Soft Computing Tools for Applications in Food & Agricultural Processing

August 01 - 21, 2018

Organized by

AGRO PRODUCE PROCESSING DIVISION
ICAR-Central Institute of Agricultural Engineering
Nabi Bagh, Berasia Road, Bhopal-462038 M.P. India

Host Institute

The ICAR-Central Institute of Agricultural Engineering (CIAE) was established on February 15, 1976 at Bhopal (MP). The CIAE is a premier Institute in the country to conduct basic, applied and adaptive research in agricultural engineering. Human resource development by organizing specialized training courses is a major commitment of the Institute to upgrade the skills of engineers, scientists, subject matter specialists, farmers, manufacturers and planners engaged in the promotion of farm mechanization in the country. The Institute has the facilities to undertake R&D activities in the areas of farm mechanization, conservation agriculture, irrigation and drainage engineering, ergonomics and safety in agriculture, energy management, agro-processing and food technology, soybean processing and utilization. The farm (93 ha), workshop and library supports research and development work of the institute. The Institute campus is located on Berasia Road and is 7 km from Bhopal railway station and 8 km from airport. During August, the climate will be pleasant with some rains. It is suggested to come prepared with an umbrella. Average maximum and minimum temperature range for the month of August shall be 30 and 22°C.

Information on CAFT Training

Soft computing utilizes computation, reasoning and inference to reduce computational cost by exploiting tolerance for imprecision, uncertainty, partial truth and approximation. The number of soft computing based methods and applications have been reported in the literature in a variety of scientific domains and food processing in particular.

This CAFT training shall include techniques of experimental design and analysis, decision making tools, hardware, artificial intelligence, bio-informatics and software interface and applications including image processing and analysis applicable in the area of food science and engineering,

Soft computing tools can be used to find out threshold and develop algorithms for agricultural produce. With obtained values through soft computing tools applications for food safety, food quality and also for decision making can be designed. The free-ware software for soft computing will also be taught so that participants can apply these software for various applications.

Objectives

The major objective of this course is to develop the competence of the scientists / researchers / subject matter specialists about the principles and basic concepts of soft computing tools and interface of hardware and software to carry out the data capture and analysis work in food and agricultural processing aspects.

Subject Matter Covered

The training curriculum will largely be based on the training needs of the participants and include various aspects of soft computing. Some of the important areas are as following:

- Advances in food processing techniques seeking computational interventions
- Experimental design and analysis tools
- Soft computing tools for decision making
- Hardware and software interface and applications
- Image processing tools and algorithms
- Applications of Artificial Intelligence in food processing
- Introduction to sensors and their applications for food processing
- Introduction to App development and Apps for food processing
- Bio-informatics in food processing of agricultural produce

Eligibility

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. A maximum of 25 participants will be selected based on their experience and area of work. One to two participants may be sponsored from each Institute / Organization.

The eligibility criteria for the course are:

o Degree of Master in Agricultural Engineering/ Food Technology/ Food and Nutrition/ Post-harvest Technology/Engineering and allied disciplines with working knowledge of Computers.
o Working in a position not below the rank of Scientist / Assistant Professor / Lecturer / Subject Matter Specialists or Equivalent.

How to Apply?

The applicants may see the guidelines available at the web site for the CAFT Training at http://iasri.res.in/cbp/ToDownload/Guidelines%20to%20participate%20in%20training%20program.pdf and also send their applications through proper channel in the prescribed format to The Course Director, CAFT Training on 'Soft Computing Tools for Applications in Food & Agricultural Processing', ICAR-Central Institute of Agricultural Engineering, Bhopal-462038. The last date for the receipt of the nomination is 30th June 2018. The selected candidates will be informed by 5th July 2018.

Registration Fees

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 an Demand Draft 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/III class train fare or bus as the case may be. TA to be paid on production of a certificate or tickets by the participant.

How to Reach CIAE

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