



Division of Agricultural Engineering

ICAR-Indian Agricultural Research Institute, New Delhi-110012

High-End Workshop (Karyashala)

on

ADVANCE TECHNIQUES IN QUALITY ANALYSIS OF AGRO-PRODUCE

2nd - 11th
January, 2023

Sponsored by:

Science and Engineering Research Board (SERB)
Department of Science and Technology, Govt
under Accelerate Vigyan Scheme.

About the workshop

The high end workshop cum training is aimed at capacity building of PG and Ph.D. students. This program intend to provide opportunities to acquire specialized research skills. The course has been structured in a series of modules with classroom lectures and practical on hands-on demonstrations in equipment such as texture analyzer, hyperspectral camera, rheometer, oscilloscope, etc.

Access to good quality agro-food is one of the greatest causes of public concern in recent years. Non-destructive techniques have become effective analytical tools in evaluating the quality of food products. The synergistic applications of these techniques along with computing tools are useful in the identifying quality of agro produce. Computing tools are an integral part of advanced techniques for data analysis and they are useful in understanding the complex nature of the phenomenon. The participants will be exposed to advanced techniques along with conventional measurements during this high-end workshop. The exposure of students to advanced techniques in quality analysis of food will build and strengthen their confidence in using high end equipment for their research work.

Learning objectives

- ✓ To educate participants about various food quality analysis and management techniques
- ✓ To imparting hands-on training on textural characterization, hyperspectral imaging, acoustics, sensors and microcontroller
- ✓ To acquaint about computing tools for data acquisition and analysis.

NOTE

NO REGISTRATION FEE

Mode of training: **OFFLINE**

Last date of registration: **25 Dec, 2022**

Workshop date: **2nd - 11th Jan, 2023**

EVENT ORGANIZERS

Course Director

Dr. Arun Kumar T. V., Scientist

Course Coordinators

Er. Pramod P Aradwad, Scientist

Dr. P. K. Sharma, Head, Div of Ag. Engg

Er. Utpal Ekka, Scientist

About the Institute

The journey of Indian Agricultural Research Institute (IARI), popularly known as Pusa Institute, began in 1905 at Pusa (Bihar) with the generous grant of 30,000 pounds from an American philanthropist, Mr. Henry Phipps. The institute was then known as Agricultural Research Institute (ARI), which functioned with five departments, namely Agriculture, Cattle Breeding, Chemistry, Economic Botany and Mycology. The name of ARI was changed to Imperial Institute of Agricultural Research in 1911 and, in 1919, it was renamed as Imperial Agricultural Research Institute. Following a devastating earthquake on 15th January 1934, the institute was shifted to Delhi on 29th July 1936. Post-independence, the institute has been renamed as Indian Agricultural Research Institute (IARI). IARI attained the status of a Deemed University in the year 1958. The green revolution that brought smiles to millions of Indians bloomed from the fields of IARI with the development of famous wheat varieties, which contributed an estimated one billion tones of addition production. As the Mother of several ICAR institutions, IARI continues to be the leading institution for agricultural research, education and extension in the country. Currently, the Institute has 20 divisions 5 multi-disciplinary Centres situated in Delhi, 8 regional stations, 2 off-season nurseries, 3 All India coordinated research projects with headquarters at IARI and 10 national Centres functioning under the all India coordinated research projects. It has the sanctioned staff strength of 3540 comprising scientific, technical, administrative and supporting personnel.

About the Division

The Division of Agricultural Engineering was established in 1945 to develop and introduce appropriate machinery, implements and soil water conservation systems in Indian agriculture. Subsequently, postgraduate teaching and research on these aspects were added to the mandate of the Division. The Division has the mandate for conducting strategic research on design and development of technologies/equipment in the area of Agricultural Processing and Structures, Farm Machinery & Power, Protected Cultivation, Soil and Water Engineering and Renewable Energy Sources with extension of technologies to farmers and entrepreneurs. The Division also provides Post Graduate teaching.



Who can participate

The workshop is open to postgraduate and Ph.D. students in Agricultural Processing/Post Harvest/Food Technology/Food Science/Dairy Technology and relevant discipline from Institutes/Colleges/Universities in India. There is **no registration fee** for the applicants. Twenty five participants (M.Tech./M.Sc. and Ph.D. students) will be selected for the training on first cum first serve and merit.

Travel, Food & Accommodation

All the selected students will be provided with travel allowance (as per GOI norms). FREE accommodation, on sharing basis, and food will be provided to participants for the entire workshop duration.

How to apply

1. Interested eligible candidates can fill the registration form [CLICK HERE](#)
2. Download
Application Form : [CLICK HERE](#)
NOC : [CLICK HERE](#)
3. Send the scanned copies of duly filled in **Application Form** and **No Objection Certificate** by e-mail (arun.tv@icar.gov.in).
4. Only selected candidates will be informed by email/phone, therefore the candidates must provide valid E-mail IDs and phone number during online registration.

A certificate of participation will be issued to all the trainees on successful completion.

Venue

Division of Agricultural Engineering

ICAR-Indian Agricultural Research Institute
New Delhi-12

CONTACT DETAILS

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Scientist

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