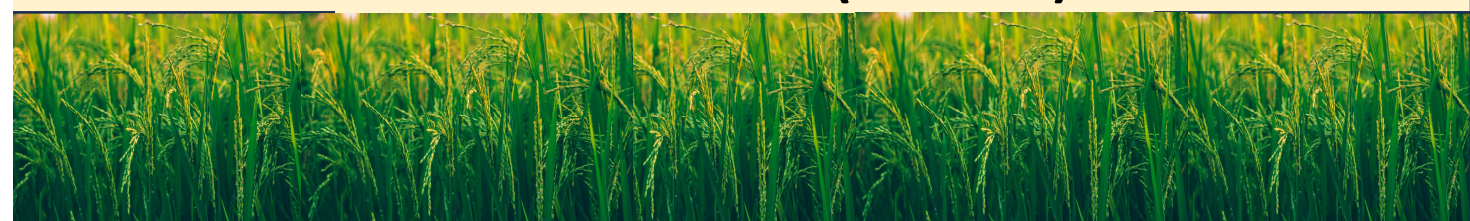# 2nd INTERNATIONAL TRAINING PROGRAMME ON EMERGING TRENDS IN AGRICULTURAL TECHNOLOGIES

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, INDIA

FROM: 17TH -26TH NOVEMBER 2024

IN COLLABORATION WITH

AFRICAN-ASIAN RURAL DEVELOPMENT ORGANIZATION (AARDO)

Title of the Programme
EMERGING TRENDS IN AGRICULTURAL TECHNOLOGIES

Sponsoring Organization
African-Asian Rural Development Organization (AARDO) (www.aardo.org)

Organizer/Training Institute
Indian Institute of Technology Kharagpur (IITKGP)

Duration
17th –26th November 2024

Session Timings
9:30 to 16.30 hrs (IST GMT+5.30)

Deadline for Application
20th October 2024

INTRODUCTION

In collaboration with AARDO, IIT Kharagpur aims to conduct the 2nd International training program on '**EMERGING TRENDS IN AGRICULTURAL TECHNOLOGIES**' at the IIT Kharagpur from **17th – 26th November 2024**. The course is specially designed for the representatives of AARDO member countries, including the middle and senior-level executives from government departments, ministries, agriculture scientists, and engineers engaged in precision agriculture, especially mechanization. The course content will also emphasize policy formulation, and its proper implementation and planning for innovative and affordable technologies developed at IIT Kharagpur for the reduction of drudgery, and upliftment of the lifestyle of the rural population

BROAD COURSE COMPONENTS

- ➢ Drone and its application in agricultural produces.
- ➢ Electronics and automation in agricultural technologies.
- ➢ Mechatronics in Agriculture.
- ➢ AI/ML and blockchain technology in agriculture.
- ➢ Low and affordable technologies for Rural India.
- ➢ Developing Institutions for Rural Technologies.
- ➢ Intellectual Property Rights (IPR) and Technology Transfer

OBJECTIVES

- ✓ Promoting precision and sustainable Agriculture implementation.
- ✓ Advocate agriculture efficiency attainment strategies and farm produce quality improvement.
- ✓ Promote innovative affordable rural technologies for improving the social economic status of rural communities.
- ✓ Developing policy framework for effective transfer of technologies to AARDO member countries.

PARTICIPATION

The training programme will be attended by experts, senior officials and individuals working in the relevant field in AARDO member countries. Resource persons from the host Institute (IIT KGP) and other institutions having rich experiences on the subject will be invited to share their experiences and expertise with the participants.

ESSENTIAL QUALIFICATIONS

- ✓ Bachelor Degree in Sciences/or its equivalent with a considerable working experience in planning and executing programmes related to the subject of the training;
- ✓ Must be subject enthusiast related to the programme;
- ✓ Applicants should be below 50 years of age, with no participation in any AARDO's offline training programme over the preceding two years

MEDIUM OF COMMUNICATION

The medium of communication is English only. The participants are expected to have a good working knowledge of English.

CERTIFICATE

Certificates authenticated with the signature of H.E. Secretary General, AARDO, and IITKGP authorities will be provided after the successful completion of the training program.

TENTATIVE SESSIONS SCHEDULE

Day-1	17th November, Sunday	Arrival of Participants
Day-2	18th November, Monday	Registration of guests and Inauguration Ceremony and 1st Lecture on AI/ML-based agricultural technologies
Day-3	19th November, Tuesday	Mechanization of cost-effective machines for rural sectors
Day-4	20th November, Tuesday	3D Agriculture and Advanced Aquaculture Technologies
Day-5	21th November, Wednesday	Challenges and Engineering aspects of Post-harvest processing of food
Day-6	22st November, Thursday	Modern food processing Industries
Day-7	23rd November, Friday	IP Challenges and technology transfer issues in Agriculture
Day-8	24th November, Saturday	Field Visit
Day-9	25th November, Sunday	Field Visit
Day-10	26th November, Monday	Interaction session and Closing ceremony

HOW TO APPLY

Step 1:
Log on to the link:
https://aardo.org/aardot.php

Step 2:
Fill up the details and submit. Take print out of the filled in application form.

Step 3:
Applicants are required to sign their applications and send them along with the recommendation letter of the Nodal Ministry of AARDO/Centre of Excellence to our Email: iec@aardo.org

ABOUT THE ORGANIZING INSTITUTION (IIT KGP)

Indian Institute of Technology Kharagpur (IIT Kharagpur), established in 1951, is the first IIT to be recognized as an Institute of National Importance by the Government of India. In 2019 it was awarded the status of Institute of Eminence by the Government of India. The institute was initially established to train engineers after India attained independence. However, over the years, the institute's academic capabilities diversified with offerings in management, law, architecture, humanities, etc. IIT Kharagpur has an 8.7-square-kilometer (2,100-acre) campus and has about 22,000 residents.

Considering the importance of agriculture in ensuring food and nutritional security, the Agricultural Engineering department had been incepted at the Indian Institute of Technology, Kharagpur, in 1952 according to the recommendation of the Dhar committee appointed by the Board of Governors. Subsequently, with the upgradation of its academic programs, the department was re-christened as the Agricultural & Food Engineering department in 1994. Among 23 IIT institutes, IIT Kharagpur has the sole distinction of having an Agricultural & Food Engineering department, which comprises six disciplines Farm Machinery and Power, Land and Water Resources Engineering, Agricultural Biotechnology, Food Process Engineering, Agricultural Systems Management, and Aquacultural Engineering, respectively. Sponsored research projects and development activities dealing with Integrated Rainwater Management, Soil Tillage, Utilization of Fly ash, Ergonomic Database for Agricultural Equipment, Integrating Remote Sensing Data with Distributed Hydrological Models, Model Pilot Plant and koji room facilities for the production of industrial enzymes, etc. The department has filed several patent applications and transferred many technologies to industries and various stakeholders based on its innovative research.

PROGRAMME COORDINATOR	
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